



MERITSHOT

EXECUTIVE PROGRAM IN

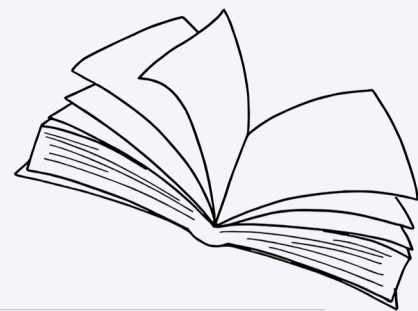
# DATA SCIENCE & A.I.

Designed for Data  
Science & A.I. Enthusiasts  
to redefine the Future of  
Analytics and A.I.

DURATION

6 MONTHS

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# About

## Meritshot

Meritshot is an online education platform to help data science enthusiasts and working professionals looking to transition their careers in the Data Science and AI Field. We foster a flourishing community of working professionals who wish to upskill themselves.

At Meritshot, we are working towards transforming the traditional approach of learning with the modern way of learning where individuals learn experientially with ideas and creativity coming from top industry mentors and coaches. Based on our market research and conversation with industry veterans, we have identified Data Science as one of the sectors with a very huge demand and very low supply.

Our vision is to design and deliver a high-octane online Executive program in Data Science to feed the supply-demand imbalance surge in India and make India a global hub for data science. If you are reading this, you may wish to accelerate your career in Data Science with Meritshot, we promise to equip you with the perfect mix of business understanding and technical skills to help you achieve the same.

**Roshan Sharma**

**Founder & CEO**

Meritshot

# Data Science Emergence

## The Modern Era

In the modern era, data has become one of the most valuable resources, and the field of data science has emerged as a powerful tool to unlock its potential. Data science is a multidisciplinary field that combines techniques from computer science, mathematics, and domain expertise to extract insights and knowledge from large and complex data sets.

With the increasing availability of data and advancements in technology, data science has gained immense importance across various industries and has revolutionized the way organizations make decisions, solve problems, and innovate.



Technological advancements also played a crucial role in the emergence of data science. The rapid development of computing power, storage capabilities, and data processing tools paved the way for handling large and complex data sets. Additionally, the rise of the internet, social media, and connected devices generated massive amounts of data, providing new opportunities for data science to thrive.

# Why data science with **Meritshot?**



## **Certification Program**

Get certified on successful completion of the Program in Data Science and AI.



## **Personalized Evaluation**

Get personalized evaluation on every assignment and project by domain experts.



## **Domain Specialization**

Get full fledged experience of a specific domain to showcase a focused Data science portfolio.



## **Personalized Projects**

Work only on personalized Portfolio projects that suits your work profile and background.



## **Dedicated Mentorship**

Get dedicated mentorship on every step of learning Data science throughout program.



## **Guaranteed Job Offers**

Guaranteed Job Offers after successful completion of the Data science and AI Program.

# Positions Offered



**ML  
Engineer**

**Data  
Scientist**

**Data  
Analyst**

**Data  
Engineer**

**NLP  
Engineer**

**Business  
Analyst**

**Data  
Architect**

**Database  
Administrator**

**Statistician**

# Learn with Top Industry Experts



**Hritik Gupta**  
Lead Data Scientist  
**Meritshot**



**Dev Neekhra**  
Sr. Cloud Analyst  
**Capgemini**



**Dr. Shweta Singh**  
Associate Professor  
**Delhi University**



**S.D. Siddiqui**  
Associate Professor  
**Delhi University**



**Ravi Shekhar**  
Sr. Data Architect  
**Pearson**



**Jaya Kranti Soni**  
Data Evangelist  
**Meritshot**



**Neelotpal Gaur**  
Sr. Data Engineer  
**Credit Saison**



**Fariya Ammara**  
Project Manager  
**CDAC**



# Program Curriculum

## Preparatory Course

### **EXCEL FOR DATA ANALYTICS**

Statistical Functions, Logical Functions, Mathematical Functions, Lookup Functions, Charts, Dashboards, What-if Analysis, Forecasting, Linear Regression Analysis etc

### **TABLEAU AND POWER BI**

Charts, Maps, Level of Details Expressions, Table Calculations, Aggregations, Granularity, Data Extracts, Filters, Dashboards and Storyboards in Tableau & Power BI.

### **PYTHON AND R PROGRAMMING**

Variables, Operators, Strings, Data Structures, Loops, Conditionals, Functions, Regular Expressions, OOPs, Space & Time Complexity in Python, and Intro to R Programming

## Data Analysis Course

### **STATISTICS & HYPOTHESIS TESTING**

Descriptive Statistics, Basic and Conditional Probability, Inferential statistics, Normal distribution, Hypothesis testing, t test, z test, ANOVA, chi-squared

### **DATA ANALYSIS AND VISUALIZATION**

Introduction to Numpy, Pandas, Matplotlib, Seaborn, Basic Charts for Advanced Data Visualization, Interactive Visualization, 3D Charts and Visualization.

### **DATA CLEANING, PREPARATION, & PROCESSING**

Missing Values treatment, Outliers treatment, Categorical encoding, Data Manipulation functions, Data transformations, feature engineering, and feature scaling.



# Program

## Curriculum

### Machine Learning Course

#### **SUPERVISED LEARNING**

Linear Regression, Logistic Regression, KNN, SVM, Decision Trees, Random Forests, Boosting Algorithms, Imbalanced ML, and Advanced ML Modelling Techniques.

#### **UNSUPERVISED LEARNING**

K Means Clustering, Hierarchical Clustering, Dimensionality Reduction, Principal Component Analysis, Linear Discriminant Analysis, Clustering metrics etc.

#### **TIME SERIES & RECOMMENDER SYSTEMS**

Time series fundamentals, Introduction to AR, MA, ARMA, ARIMA, SARIMA, ARIMAX, SARIMAX Models, Introduction to Recommender systems using Surprise Package.

### Big Data & SQL Course

#### **INTRO TO MYSQL AND DATABASES**

Database fundamentals, DDL, DML, DQL Queries, SQL Joins, Sub queries, Set operations, Accessing databases, Loading Tables, Intro to Spark for Big Data.

#### **QUERY ANALYSIS IN PYTHON**

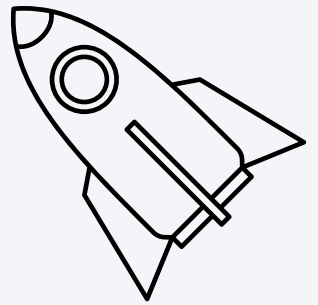
Introduction to Query analysis in Python using Pandas, and Pyspark library. Exploring the pyspark library to execute any kind of query in Python Programming.

#### **INTRO TO SPARK FOR BIG DATA**

Introduction to Big Data, and Spark Architecture system, Installation and set-up of Spark. Big Data Analysis, and Execution of Machine Learning Algorithms.

# Industry Projects

## & Case studies



### Climate Change Impact on Global Food Supply Chain

Frequent Climate change and irregularities are big challenging environmental issues. These irregularities in climate divisions are drastically affecting the human lives residing on the Earth

### Keyword analysis and generation for google ads

Optimize search engine marketing campaigns by identifying relevant keywords for Google Ads to improve ad targeting and increase visibility, clicks, and conversions.

### Quora Insincere Questions Classification analysis

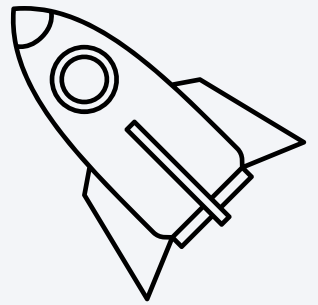
Enhance content moderation on Quora by using ML algorithm to classify and filter out insincere questions to maintain the integrity of the platform and provide a better user experience.

### Cabs Trip and Travelling duration Prediction

Predict the duration of cab trips using machine learning to optimize route planning, improve customer satisfaction, and enhance operational efficiency in the transportation industry.

# Industry Projects

## & Case studies



### **Product Prices Suggestions for Online Sellers**

Provide online sellers with data-driven price suggestions using machine learning to optimize pricing strategies, increase sales, and maximize profits in the competitive e-commerce market.

### **Demand Forecasting for an Ecommerce Giant**

Forecast demand for a giant ecommerce, enabling effective inventory management, reducing stockouts and overstocks, customer satisfaction, and optimizing supply chain operations.

### **Recommend products to most suitable customers**

Utilize personalized recommendations based on user behavior and preferences using ML to improve user experience, increase engagement, and drive sales for retail and e-commerce.

### **Traffic Signs Classification using CNN**

Accurately classify traffic signs using ML to enhance road safety, assist in autonomous driving, and improve traffic management and enforcement in transportation systems.

# Libraries & Tools Covered



Excel



NoSQL



Tableau



Power BI



NumPy



pandas



matplotlib



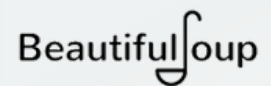
seaborn



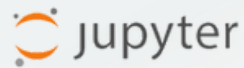
ANACONDA



Visual Studio Code



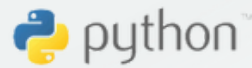
BeautifulSoup



jupyter



colab



python



R



scikit learn



Imbalanced learn



Darts



TensorFlow



PyTorch



NLTK



statsmodels



spaCy



sas



SciPy



Scrapy



Flask



hadoop



APACHE Spark



git



aws



Google Big Query



plotly



XGBoost



mongoDB



# Program

## Outcomes



- **In-depth knowledge** of Data Science Concepts, Data Cleaning, Processing, ML, DL, and NLP algorithms.
- **Hands-on Experience** with advanced Data Science and Business Intelligence Tools and Techniques.
- **Ability to solve Real-world Data Science problems** and making data-driven decision making for optimized results.
- **Networking Opportunities** with fellow students, faculties, Domain Experts, Seasoned data Science Professionals.
- **Enhanced Career Opportunities**, as demand for Data Science professionals is very high across all the Industries.



# Career Support



## **Get Ready with Domain Experts:**

Learn from top Data Science Educators with domain expertise through a Live Online classroom. 24X7 Support from Teaching Assistants for Help in Assignments, Discussions, and Doubts Resolutions.

**Industry Leaders for Professional Grooming:** Know what's Happening inside the industry, and What's really required to make it through by engaging with Data Scientists and accompany them with sessions on Hiring, Day- to-Day Life of a Data Scientist/Data Analyst etc.

## **Benefit of Networking with Professionals:**

Grow and Develop your Career with the Help of similarly motivated and Highly energetic Peers. Get to know How our Alumni Started their Career in the Emerging Field of Data Science and Artificial Intelligence.

## **100% Career Assistance and Lifetime Career Support:**

Get Guaranteed Job Opportunities from Our Partners from Top MNCs and Startups such as American Express, Tokopedia, Infosys, TCS, PayTm, SpringWorks, MIQ, Tech Mahindra, Genpact, Amazon, Wipro etc.

# Hiring Partners





# Program

## Details

### Program Flow

**2 Months** - Learn Python Programming, R Programming, Tableau, Advanced Excel, SQL, and Power BI.

**2 Months** - Learn Statistics, Hypothesis Testing, Data Analysis, Visualization, Data Cleaning and Processing.

**2 Months** - Learn Machine Learning Models, Advanced Machine Learning Concepts, Time series.

### Program Fee

**\$ 2,990/-**

Flexible Financing Options(EMI) available at 0% Interest rates on EMIs.

### Contact Support

For further details, contact us at: [\*\*+1-\(518\)-8619038\*\*](tel:+1-518-8619038)

or Mail us at [\*\*support@meritshot.com\*\*](mailto:support@meritshot.com)



**M E R I T S H O T**

#### **COMPANY INFORMATION**

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