

# AKSHAY PARATE

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## EDUCATION

### Stevens Institute of Technology

Master's, Data Science

August 2023 - December 2024

GPA: 3.66

- Relevant coursework: Applied Machine Learning, Data Analysis using Statistical Methods, Natural Language Processing.

### IIIT Bangalore

Certification, Advanced Programme in Blockchain Technology

December 2021 - August 2022

GPA: 3.6

- Certificate link: [Link to certificate](#)

### K.J. Somaiya College of Engineering

Bachelor's, Electronics and Telecommunication Engineering

May 2018 - May 2021

GPA: 3

## SKILLS

- Programming Languages/Frameworks:** Python, R, Java, JavaScript, SQL, AngularJs, Flask, NodeJs.
- Machine Learning libraries:** Pandas, NumPy, Matplotlib, Seaborn, PyTorch, TensorFlow, Keras, NLTK.
- Machine Learning Algorithms:** Linear Regression, Logistic Regression, Decision Trees, Random Forest, K-means clustering, KNN.
- Statistical Analysis:** Hypothesis Testing, ANOVA, Regression Analysis, Time Series Analysis, Data Integration and Analytics, SAP.
- Neural Network:** Recurrent Neural Network, LSTM, Attention, Transformer, Convolutional Neural Networks, LLM.
- Visualization Tools:** Power BI, Tableau, Python, Excel.
- Cloud Platforms/DevOps:** AWS, Alibaba, Git, Jenkins, Kubernetes, Postman.
- Finance:** Financial Risk Management, Fixed Income, Bonds, Hedge Funds, Derivatives.

## CERTIFICATIONS

Introduction and Intermediate R for Finance, Data camp.

Java Full Stack Development Course, Coders Technology, Mumbai.

## PROFESSIONAL EXPERIENCE

### LTIMindtree

Senior Consultant

Riyadh Saudi Arabia

June 2021 - August 2023

- Implemented DevOps (CI/CD) automation to enhance the project's ability to deliver applications and services at high velocity.
- Utilized Python for data analysis on production server traffic, contributing to enhanced server responsiveness by 20%.
- Developed a machine learning algorithm for a decision system that dynamically scaled servers based on real-time loads.
- Led the development and implementation of a Python script for real-time server load monitoring, enabling dynamic scaling and optimizing resource utilization by 15%.
- Played a vital role in conducting business analysis for the client, contributing to strategic decision-making processes.
- Analyzed and reviewed on capacity and demand data to help manage capacity using Power BI to meet current and future demand.
- Designed, maintained, and developed forecast and accuracy reports using Power BI in python to meet business needs.
- Supported other administrative teams by creating BI reports and presentations.

### K.J. Somaiya College of Engineering

Python IOT Intern

Mumbai, Maharashtra, India

September 2019 - January 2020

- Developed Python automation scripts for smart irrigation, leading to increased efficiency by 12% and reduced labor costs.

## PROJECTS & OUTSIDE EXPERIENCE

### Strategic-Fund: Comprehensive Analysis and Portfolio Simulation using Python and Power BI

New Jersey, USA

- Extracted and cleaned a comprehensive dataset of 13,000 mutual funds using Python, ensuring high data quality and consistency.
- Use statistical tools to interpret data sets while computing mean returns and standard deviation for each fund, and generated 100,000 potential portfolios using Monte Carlo simulation on excel using pivot tables and queries.
- Optimized portfolio selection by maximizing the Sharpe ratio, achieving a portfolio with a Sharpe ratio of 13.
- Develop advanced reports and dynamic dashboards on Power BI to visualize portfolio performance.
- [Link to project](#)

### AI-Trader: Real Time Automated Portfolio Building and Algorithmic Trading

New Jersey, USA

- Led the end-to-end development of an investment tracking platform, encompassing crypto, stock markets, and mutual funds.
- Utilized MySQL for database management, ensuring efficient and secure data storage and retrieval.
- Implemented BERT pre-trained model with a classification layer to train on existing financial news for sentiment analysis, achieving 90% accuracy.
- Utilized Google News API to mine the latest financial data and generated daily reports in Power BI with calculated sentiment.
- [Link to project](#)