AKSHAY PARATE

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# EDUCATION

## Stevens Institute of Technology August 2023 - December 2024

*Master's, Data Science GPA: 3.66*

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

## IIIT Bangalore December 2021 - August 2022

*Certification, Advanced Programme in Blockchain Technology GPA: 3.6*

* Certificate link: [*Link to certificate*](https://www.credential.net/f433586f-65bd-427c-9802-3c9c1e1edbe3#gs.59lh64)

## K.J. Somaiya College of Engineering May 2018 - May 2021

*Bachelor's, Electronics and Telecommunication Engineering GPA: 3*

# SKILLS

* **Programming Languages/Frameworks:** Python, R, Java, JavaScript, SQL, AngularJs, Flask, NodeJs, Power Query.
* **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 Riyadh Saudi Arabia

*Senior Consultant 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%.
  + Implemented Agile Scrum methodologies to enhance project management and team collaboration, resulting in a 20% increase in project delivery efficiency.
  + 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 Mumbai, Maharashtra, India

*Python IOT Intern 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.
* Computed 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.
* Developed an interactive Power BI dashboard to visualize portfolio performance, composition, and key metrics.

* *[Link to project](https://github.com/akshayparate123/Mutual-Funds-Analysis)*

## 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](https://github.com/akshayparate123/PortfolioGenius-Algorithmic-Trading-Empowered-by-NLP-for-Intelligent-Portfolio-Building)*