

AAYUSH KAMATH

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EDUCATION

- **Columbia University, New York, NY** Jan 2022 - May 2023
 - *M.S. in Computer Science*
- **Sardar Patel Institute of Technology, Mumbai, India** Aug 2017 - May 2021
 - *B.Tech. in Information Technology*

WORK EXPERIENCE

- **ICPC Foundation | Software Engineer Intern** Aug 2023 - Present
 - Working on Competitive Coding problems on Codeforces and Leetcode, associated with data structures and algorithms using Python.
- **Aptitude (Columbia Business School) | Software Engineer Intern** May 2022 - Aug 2022
 - Streamlined checkpoint satisfaction of **Bank Account Information Authentication module** for Tenant verification using **Plaid API**.
 - Implemented User Authentication module for login using **Firebase Authentication API**, resulting in **40%** faster account access times.
 - Initiated **smart contract creation** and token generation by evaluating checkpoints for approval of rental application of tenants using **Solidity** framework.

SKILLS

Programming Languages: Python (Advanced), SQL, R, Java, C, JavaScript

Web Dev Frameworks: HTML, CSS, Bootstrap, MySQL, PostgreSQL, React, Django, Angular, Nodejs.

Python Libraries: Keras, TensorFlow, PyTorch, Scikit Learn, Matplotlib, Pandas, NumPy, OpenCV.

Developer Tools: Git, AWS, Google Colab, VS Code, R Studio, Tableau, MS Excel.

PROJECTS

- **Investment Portfolio Management using Machine Learning** Feb 2023 – May 2023
 - Developed a **user interactive dashboard** with a **Django** back-end and **React** front-end framework, for visualization of data obtained from exploration and modeling phase.
 - Implemented **LSTM and regression models** by training on large scale time series data of S&P 500 stocks in a 10-year period for forecasting stock prices.
 - Strategized stock management for **long-term investment portfolios** leveraging Mean Variance Optimization to create sector wise portfolios with minimum risk and **20% yearly return** on investment.
- **Coffee Factory | Web App for Coffee shops** Feb 2022 - May 2022
 - Established a comprehensive **review aggregator ecosystem** comprising of hundreds of coffee shops with features such as User Profile, User Reviews, Search, Filter by Categories and Shop details.
 - Deployed a **React** front-end web application, hosted on **AWS Amplify** to interact with users and a back-end of coffee shops anchored by **S3 Bucket and DynamoDB**.
 - Integrated Services/APIs: **AWS** (Cognito, Amplify, Dynamo DB, S3 Bucket, etc.), **Google Reviews API**, **Google Maps API**, **React**.
- **Dining Concierge | Chatbot for Restaurant Recommendations** Jan 2022 - Feb 2022
 - Engineered a full stack web application on AWS, leveraging cloud technologies to recommend restaurants to a user based on cuisine, time slot and location preferences.
 - Designed an **Amazon Lex based recommendation bot** to answer user queries by incorporating key intents.
 - Utilized Services/APIs such as **Amazon Lex**, **Elasticsearch**, **DynamoDB**, **API Gateway**, **SQS**, **SNS**, **AWS Lambda**, **Yelp API**.

CERTIFICATIONS

- **IBM Data Science Specialization** Apr 2020 - July 2020
 - Completed a 9 course specialization including Data Analysis with Python, ML with Python, Data Visualization with Python and an Applied Data Science Capstone Project.