BHARATH KUMAR BANDARU

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PROFESSIONAL EXPERIENCE

Software Engineer (Full Stack Developer)   Aug 2019 – Jul 2021
Fidelity Investments, Bangalore

- Managed development, modification, and maintenance of over 10 **Java Spring Boot** applications for equity trading business requirements while addressing production issues.
- Contributed to the migration of **Java** and **Scala** applications to **AWS**.
- Improved a **Scala** automation application, reducing manual effort for traders by **1-2 hours** per day.
- Created **40+** automation test cases for two REST APIs to verify and validate application workflow.
- Increased traders' work efficiency by more than **10%** by improving the **Java Spring Boot** application's handling of stock orders.
- Reduced production issues risk by **5%,** by implementing an **AWS Lambda** function in **Python** that identifies errors from automated scheduled jobs and alerts the corresponding team management.

ACADEMIC PROJECTS

Face Recognition Application with AWS Integration   Aug 2022 – Dec 2022

- I developed a Python application configured on AWS, achieving **95%+** face recognition accuracy, and implementing real-time visibility through AWS CloudWatch monitoring.
- Utilized AWS services like **S3**, **DynamoDB** and AWS **Lambda** for storing and retrieving information and classification results of the input videos.

Interactive Visualization of Future Public Events from Social Media Data   Aug 2022 – Dec 2022

- Developed a visualization system utilizing **D3.js** and **JavaScript**, based on the work of Isaac Cho et al., that includes an interactive dashboard with interconnected components to analyze future events and explore event relationships based on various indicative parameters.
- Utilized the Twitter API to extract tweets and applied text preprocessing techniques such as tokenization and lemmatization to normalize the data and using entity extraction techniques to extract date and location information of events from tweets.

Multimedia Data Analysis Using Feature Extraction and Classification   Aug 2021 – Oct 2021

- Developed a Python application that extracts facial features, performs distance-based similarity analysis, and utilizes dimensionality reduction techniques like PCA, SVD, and K-means clustering for feature identification.
- Implemented indexing and classification using SVM, DT, and LSH to efficiently organize and analyze the dataset images based on the discovered latent features.

Enhancing Sentiment Analysis with Roberta Transformer Neural Network   Aug 2021 – Dec 2021

- Trained and experimented with the Roberta model using Amazon, IMDB and Twitter data in **Python** improving the model's accuracy by approximately 3% for general text categorization..
- Analyzed the performance of the deep learning model by comparing it with machine learning models like Naïve Bayes and SVM on various metrics.

CERTIFICATIONS

AWS Certified Developer – Associate, Amazon Web Services, June 2023. (Link)

EDUCATION

Master of Science, Computer Science   May 2023
Arizona State University, Tempe, Arizona   3.97 GPA
Coursework: **Cloud Computing**, Fundamentals of Statistical Learning, Deep Learning, Multimedia & Web Databases, Distributed Database Systems, Data Visualization.

Bachelor of Technology in Computer Science and Engineering   May 2019
National Institute of Technology Karnataka, Surathkal, India   3.5 GPA
Coursework: Operating Systems, **Data Structures and Algorithms**, Design and Analysis of Algorithms, Object Oriented Programming, Database Management Systems, Data Warehouse and Data Mining, Distributed Computing.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, TypeScript, JavaScript, Scala, Go
Operating Systems: Linux, Windows, OS X
Design: Object Oriented Development, Service Architecture
Tools: Maven, Jira, Jenkins, Datadog
Frameworks: Angular, Flask, Spring boot, Android Studio, Apache Spark

Version Control Systems: Git, GitHub
Technologies: HTML/CSS, Node.js
Databases: SQL, PostgreSQL
Cloud Platform & OS: AWS, Linux, Windows