Gaurav Hoskote

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EDUCATION

Master of Science, Computer Science (Arizona State University, Tempe, USA**)**   May 2024
Relevant Coursework: Foundations of Statistical Learning, Statistical Machine Learning, Spatial Data Science, Data Mining, Data Processing at Scale, Knowledge Representation.

Bachelor of Engineering, Electronics and Telecommunications (Savitribai Phule Pune University, Pune, India**)**   Oct 2019
Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, ML, AI, Robotics.

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript, MATLAB, Linux Commands, Shell Scripting.
Data Science/ML Technologies: Tensorflow, Scikit-learn, Keras, OpenCV, Pandas, NumPy, Matplotlib, NLTK, Pytorch.
Databases: MS SQL Server, MySQL, PostgreSQL, SparkSQL.
DevOps Technologies and Tools: Git, Jenkins, Maven, Docker, Redis, RabbitMQ, Hibernate.
Libraries/Frameworks and Tools: Spring Boot, Flask, Django, Postman, Kafka, Hadoop, React.

WORK EXPERIENCE

Phonepe Ltd   Feb 2020 – Aug 2021
Software Engineer
- Developed a system that can detect anomalies by tracking transaction failures and alerting the team on low success rates for specific service providers. This helped detect anomalies and prevent losses of over 30 lakh rupees.
- Also worked on Reconciliation systems. A system for sending, receiving, and reconciling data with partner merchants. Data was transferred via SFTP and REST API calls. Designed reconciliation systems for service providers like Visa Cybersource, Airtel, and Billdesk. The total contribution of every service provider to the total revenue was more than a million dollars per month.
- Owned Credit Card as a Product. Led a team of 4 to ensure the smooth functioning of the product and implemented various improvements from the security aspect of the product which improved the success rate of transactions by over 20%.
- Incorporated engineering excellence practices and debugged over 20 issues that led to system improvements. Stood 4th amongst 31 participating teams in the company hackathon and designed the backend for an NLP feature integrated into the application for visually impaired users.
- Conducted over 15 technical interviews and hired new talent to join the company. Link of Project Details.
- Techstack used: Python, Java (Dropwizard), Grafanna dashboards, Foxtrot Query Language, MySQL DB, Influx DB.

HSBC Technologies India   July 2019 – Jan 2020
Software Engineer (Techstack used: Java (Spring Boot))
- Completed training in Web Technology, joined the Due Diligence Team at HSBC, and worked closely with project managers to ensure smooth deliverables by ensuring best coding practices were implemented.
- Was responsible for making improvements to the Channel Services component and collaborating delivery of over three critical projects in the Due Diligence department that streamlined the customer onboarding process.

PROJECTS

Image Captioning using CNN and LSTM *(Techstack used: Keras, OpenCV)*   2022
- Built an Image Caption Generator and analyzed the outputs for different hyperparameters.
- CNN was used to extract the spatial features of the image and then fed to LSTM for getting a sequential output.
- Compared the performance of ResNet50 and Xception models. The project will be hosted on Google cloud platform.

Spatial Data Operations Console *(Techstack used: Python, Javascript, Scala, Apache Sedona, Flask, DeckGL)*   2022
- The web app allows users to upload a dataset of trajectories and perform various geospatial operations on them.
- The Web application is built using the Flask framework which calls a separate service written in Scala to perform the geospatial operations. The trajectories can be visualized using DeckGL- a WebGL powered framework.
- The backend uses Apache Sedona to perform geospatial operations on the data efficiently.

Barcode Operated Attendance Management System *(Techstack used: Java, MySQL DB)*   2018
- Identified a scope for improvement in the existing manual register system used in the college and proposed a solution for the same.
- Developed a Java Swing app and used MySQL DB to store and retrieve student data. The project reduced the cost of maintaining manual registers by 70%. Was rewarded with a cash prize and certificate for this in-house project by the College.

ACHIEVEMENTS

- **Certifications**: Deep Learning Specialization by Deeplearning.ai, Mathematics for Machine Learning by Imperial College London, Machine Learning by Stanford University.
- **Workshops conducted** : Data Structures and Algorithms for the Training and Placement Department, which were attended by over 100 students. Was a member of the Algorithms Club in College.