Gaurav Hoskote

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EDUCATION

Master of Science, Computer Science   May 2024
Arizona State University, Tempe, USA
Relevant Coursework: Foundations of Statistical Learning, Statistical Machine Learning, Spatial Data Science.

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

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript, MATLAB, Linux Commands.
Data Science/ML Technologies: Tensorflow, Scikit-learn, Keras, OpenCV, Pandas, NumPy, Matplotlib, NLTK, Pytorch.
Databases: MS SQL Server, MySQL, PostgreSQL, Spark SQL.
DevOps Technologies: Git, Jenkins, Maven, Docker.
Libraries/Frameworks and Tools: Spring Boot, Flask, Django, REST API, Dropwizard, Eclipse, Postman, VS Code,Android Studio.

WORK EXPERIENCE

Phonepe (Flipkart/Walmart) Ltd   Feb 2020 – Aug 2021
Software Engineer (Techstack used: Python, Java (Dropwizard))
- 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 API calls. Designed Recon 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.

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: Pytorch, 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.
- The project will be hosted on Google cloud platform (GCP) and is currently in the development stage.

Spectrum Sensing for Cognitive Radio using Machine Learning *(Techstack used: Python)*   2019
- Cognitive radio can be configured to use a spectrum band with no data being sent on it.
- Analyzed data and used SVM to classify the signals as noise or data using eigenvalue-based detection.
- Obtained better accuracy for test statistic " Energy Detection". Achieved an accuracy of 98% on the test set.

Barcode Operated Attendance 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 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.
- **Workshops attended** : Stood 1st in the lightweight cryptography workshop.