Gaurav Hoskote

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Education

- **Arizona State University** — Tempe, AZ
  Masters in Computer Science — *Aug 2022 - Present*
  Courses: Foundations of Statistical Learning, Statistical Machine Learning, Spatial Data Science
- **Pune Institute of Computer Technology** — Pune, India
  Bachelor of Engineering - Electronics and Telecommunications; GPA: 7.75/10 — *June 2015 - Oct 2019*
  Courses: Data Structures, Algorithms, Database Management Systems, Operating Systems, Machine Learning, Artificial Intelligence

Skills Summary

- **Languages**: Java, C++, Python, C, SQL, Unix scripting
- **Tools**: Docker, Springboot, GIT, JIRA, Matlab, Postgres, Jupyter Notebooks/Google Collaboratory, Jenkins

Experience

- **Phonepe** — Pune, India
  Member Of Technical Staff — *Feb 2020 - Aug 2021*
  - **Anomaly Detection**: Developed a system that can detect anomalies by tracking transaction failures and alert the team on low success rates for specific service providers.
  - **Reconciliation Systems**: Also worked on Reconciliation systems. A system for sending, receiving and reconciling data with partner merchants. Data was transferred via SFTP and API calls.
  - **Credit Card Product Owner**: Owned Credit Card as a Product and was responsible for making sure that the category functions smoothly.
  - **Debugging and Product Improvements**: Worked on various other projects and debugged many issues in the system and implemented the required improvements
  - **Techstack used:**: Java (Dropwizard), Python.
- **HSBC Technologies India** — Pune, India
  Software Engineer — *June 2019 - Jan 2020*
  - **Due Diligence Department:**: Completed my training in Web Technology and joined the Due Diligence team at HSBC and worked closely with project managers in ensuring smooth deliverables to customers by ensuring best coding practices were implemented.
  - **Techstack used:**: Java (Springboot)

Academic Projects

- **Spectrum Sensing for Cognitive Radio using Machine Learning.**: Cognitive radio can be configured dynamically to use a band of the spectrum with no data being sent on it. Used Support vector machines to classify signals as noise or data using EigenValue based detection. Tried for various test statistics and obtained better accuracy for the test statistic - Energy Detection. Working on publishing it in a journal.
- **Barcode-operated Attendance System**: Identified a scope of improvement in the existing manual register system of the college and proposed a solution for the same. Developed a Java Swing application and used MySQL DB to store and retrieve student data. The project helped reduce the cost of maintaining manual registers. Was rewarded with a cash prize and certificate for my contribution to this in-house project.
- **Lighting Automation using Digital Image Processing**: The project focuses on automating the lighting of a classroom using Face detection. Each frame captured by the live video was divided into segments and Haar cascades algorithm was used to detect the faces. The lights were turned on based on which segment the face detected was present in. The project was approved to be installed in the University classroom.

Certifications and Courses Taken

- **Deep Learning Specialization - DeepLearning.ai**:
- **Mathematics for Machine learning - Imperial College London**:
- **Machine Learning - by Prof Andrew Ng**:

Certifications and Courses Taken

- **Conducted workshops on Data Structures, Algorithms, and Problem solving.**:
- **Secured first rank in lightweight cryptography workshop.**:
- **Member of PICT Algorithm Club (PAC).**: