Avaneesh Khandekar

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Education

- **University of Florida** — Gainesville, FL
  *Master of Science (MS) - Computer Science (GPA: **3.89** / 4.00)* — *August 2023 - May 2025*
- **Savitribai Phule Pune University** — Pune, India
  *Bachelor of Engineering in Computer Engineering (GPA: **8.78** / 10.00)* — *August 2016 - May 2020*

Skills Summary

- **Languages**: Python, Java, C++, C, R, TypeScript, JavaScript, SQL, Java, HTML, CSS
- **Frameworks**: Angular, Node.js, Spring, Spring Boot, Micro-services, Web Development, NoSQL, Django, Flask
- **Tools**: GIT, Bitbucket, Bamboo CI/CD, Jira, Swagger, Splunk, Honeycomb, Confluence
- **Platforms**: AWS, Windows, SonarQube, PagerDuty

Experience

- **Tata Consultancy Services Ltd.** — Pune, India
  Systems Engineer — *August 2020 – June 2023*
  - Developed multiple REST micro services (Java & Spring) and UI applications (Angular & Node.js) hosted on AWS to replace legacy systems with faster software solutions. Worked as the interim technical lead on this project
  - Implemented AWS-based event-driven automatic notification system using Lambdas, SQS queues, and SNS notifiers to enhance client appointment scheduling. Resulted in reduced missed appointments (80%) by sending real-time and reminder SMS notifications to clients
  - Built an ETL application in AWS to data from mainframe server and seamlessly transferred it to MS Dynamics CRM in a modern, accessible format
  - Conducted training sessions for new hires and trainees on Java, AWS, Angular, Agile, and Kanban technologies and business practices
  - Set up cloud Multi-Region and Out-Of-Region contingency mechanisms for micro services and web apps. Ensured disaster recovery and resiliency, eliminating downtime when switching regions during outages
  - Developed a PII data masking library for automatic JSON log masking in web services. This add-on has become the default organization-wide solution for the client due its usability and added security
- **Symphony Technologies Pvt. Ltd.** — Pune, India
  Project Intern — *July 2019 – April 2020*
  - Created a fuse box assembly defect detection system that identifies incorrect fuse placements based on colors. Eliminated the need for human inspection, resulting in reduced operating expenses and labor-intensive quality control
  - Utilized Image Processing and a two-step Neural Network with TensorFlow and Faster RCNN models to detect improper fuse box configurations in images, videos, and live feeds. Enhanced model efficiency and performance through dataset creation, augmentation, and fine-tuning techniques
  - Developed a desktop application with GUI interface, packaging the model for user-friendly usage. Added business requirements such as generating PDF reports with detailed results for each fault detection run, charts, total error rate, and most frequent errors for auditing

Projects

- **Customer Churn Prediction**:
  - Developed various predictive churn models that identify the steps and stages of customer churn using IBM's Telecom Data for training. The models can raise awareness and provide quantifiable metrics to help in customer retention efforts
- **Loan Approval Prediction**:
  - Developed machine learning models that predict applicants' loan eligibility based on historical data from previous grants and demographic data
- **Resume Builder and Data Management System**:
  - Developed a full desktop application that takes input as a questionnaire, generates organized resumes in PDF format, and stores the student data in an SQLite Database
  - Students have permission to access and edit their own data/resumes and admins have access to search and access all resumes in the database

Achievements & Certifications

- **AWS Certified Developer Associate**:
- **Received 5 Awards**: Three Star Awards, one Applause Award and one Appreciation Certificate for Excellence at **Tata Consultancy Services** for being a key team member

Publications

- **Detection of defective and non-defective fuse configurations of the fuse boxes used in wiring harnesses in automobiles with deep learning Issue 4, Volume 7, JETIR, 2020**:
- **Detection of Chronic Obstructive Pulmonary Disease using Convolutional Neural Networks: A Survey Issue 4, Volume 6, JETIR, 2019**: