

Avaneesh Khandekar

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EDUCATION

- The University of Florida** Gainesville, FL
Master of Science (MS) - Computer Science *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, JavaScript, TypeScript, SQL, Java, HTML, CSS
- Frameworks:** Angular, Node.js, Spring, Spring Boot, Micro-services, NoSQL, Django, Flask, Scikit, TensorFlow
- 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*
 - Implemented AWS-based event notification system using Lambdas, SQS queues, and SNS notifiers to enhance client appointment scheduling. Resulted in reduced missed appointments by sending real-time and reminder SMS notifications to clients
 - Built AWS ETL application using DataSync, Storage Gateways, Lambdas, and SQS queues. Extracted 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 AWS Multi-Region and Out-Of-Region cloud contingency mechanisms for microservices and web apps. Ensured disaster recovery and resiliency, eliminating downtime when switching regions during outages
 - Implemented REST web services (Java & Spring) and micro-UIs (Angular & Node.js) on AWS for a modernization project, following the microservices architecture. This approach enhanced speed, usability, and cost reduction compared to the legacy system, leveraging AWS services
 - Developed numerous REST web services (Java & Spring) and micro-UIs (Angular & Node.js) in AWS as part of a modernization project that adhered to the micro-services architecture, enhancing speed and usability compared to the legacy system and lowering costs with AWS services. Near the end of this project, I worked as the technical lead
 - Developed a PII data masking library for automatic JSON log masking in web services (REST API). This add-on, known for its simplicity and enhanced security, has become the default organization-wide solution for the client
- 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 fuse box, 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
 - Used advanced techniques like Principal Component Analysis, Feature Extraction, and Recursive Feature Elimination. Furthermore, developed and evaluated several algorithmic models for performance and efficiency
- Loan Approval Prediction:** 
 - Developed machine learning models that predict applicants' loan eligibility based on historical data from previous grants
 - Developed and compared multiple models using different classification algorithms like Logistic Regression, K Nearest Neighbor, Random Forest, Support Vector Machines and Decision Trees
- 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
 - Designed the user interface with Java Swing GUI and developed the logic and functions in Java. Student Login, admin control, admin search, and changing existing resumes are among the few features

CERTIFICATIONS

- **AWS Certified Developer Associate:** [!\[\]\(467d80e979964f7f8c752fb22248b5b7_img.jpg\)](#)

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: [!\[\]\(31b03e46ee8a80a1f1467b8c03bd76e8_img.jpg\)](#)
- **Detection of Chronic Obstructive Pulmonary Disease using Convolutional Neural Networks: A Survey** Issue 4, Volume 6, JETIR, 2019: [!\[\]\(7d9665ff04f9d2270c38081c6215a724_img.jpg\)](#)

ACHIEVEMENTS

- **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
- **Winner at TECH-REX 2018:** a technical quiz competition organized by CSI (Computer Society of India)
- **Runner Up at Quiz-On 2017:** a technical quiz competition organized by ISTE (Indian Society for Technical Education)