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, UNIX/Linux, Windows, SonarQube, PagerDuty

Experience

- **Tata Consultancy Services Ltd.** — Pune, India
  Systems Engineer — *August 2020 – June 2023*
  - Developed automatic event based notification systems in AWS using Lambdas, SQS queues and SNS notifiers for client appointment scheduling that reduced the number of missed appointments by the client by sending real time and reminder SMS to the clients
  - Developed multiple event based AWS Lambda applications to automate manual processes needed by the client for daily operations which increased the productivity of the users
  - Trained new hires and trainees in technologies like Java, AWS, and Angular, as well as in business practices like Agile and Kanban
  - Developed an ETL application in AWS using DataSync, Storage Gateways, Lambdas and SQS queues that extracted data from the mainframe server and pushed the data to MS Dynamics CRM in a modernized and easily accessible format
  - Set up Multi-Region and Out-Of-Region cloud contingency mechanisms for micro-services and web-apps on AWS for disaster recovery and resiliency, eliminating the downtime required to switch regions in case of an outage
  - 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
  - Created a library that automatically masks PII data in JSONs being logged for any web service (REST API) as an add-on which is now an organization wide default for the client because of its simplicity and added security
- **Symphony Technologies Pvt. Ltd.** — Pune, India
  Project Intern — *July 2019 – April 2020*
  - Developed a fuse box assembly defect detection system by identifying incorrect fuse placements based on their colors. This eliminated human inspection, reduced operating expenses, and intensive labor required in quality control
  - Used Image Processing, and a two step Neural Network to detect improper fuse box configurations in images, videos, and live feeds. The model was created using TensorFlow and Faster RCNN models, fine-tuning them for efficiency and performance after creating and augmenting the dataset through various techniques.
  - Packaged the model as as desktop application with a full GUI for better usage and added certain business requirements like aggregating the result as a report in PDF format displaying results for each fuse box, elaborate charts, the total error rate, and most frequent errors for auditing purposes

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

Last Updated on 11th July 2023

Certifications

- **AWS Certified Developer Associate**:

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**:

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)