Avaneesh Khandekar

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Education

- **University of Florida** — Gainesville, FL
  *Master of Science in Computer Science (GPA: **3.94** / 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

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

Experience

- **Citizens Property Insurance Corporation** — Jacksonville, FL
  Information Technology Intern — *June 2024 – Present*
  - Designed and implemented a custom Retrieval Augmented Generation (RAG) Q&A chatbot using Langchain to deliver insights on financial and budget data, allowing real time analysis
  - Gathered and Preprocessed raw data and converted it into SQL tables for efficient retrieval and improved query performance
  - Developed a user-friendly Streamlit UI and deployed on Azure, enhancing accessibility and usability
- **Tata Consultancy Services Ltd.** — Pune, India
  Systems Engineer (Full Stack Developer for the Vanguard Group) — *August 2020 – June 2023*
  - Developed REST micro-services and UI applications on AWS to replace legacy systems with faster software solutions. Interim technical lead for the project, ensuring timely and successful project delivery
  - Built an event-driven text notification system, reducing missed appointments by 80% through real-time and reminder texts for appointment scheduling
  - Built an Data pipeline within AWS to extract data from a mainframe server and seamlessly transform it, generating tasks in MS Dynamics CRM
  - Implemented multi-region cloud contingency for auto disaster recovery and resiliency, ensuring 99.99% uptime
  - Developed a PII data masking library for automatic JSON log masking, enhancing data security compliance
  - Wrote behavior-driven testing automation scripts for web services and UI applications for e2e and integration testing
  - Conducted training sessions on Java, AWS, Angular, Agile, and Kanban, improving team proficiency
- **Symphony Technologies Pvt. Ltd.** — Pune, India
  Project Intern (Capstone Undergrad) — *July 2019 – April 2020*
  - Developed a defect detection system POC for fuse box assembly using color-based identification, replacing manual inspection to lower operating costs and streamline quality control
  - Used TensorFlow and Faster RCNN models, employing a two-step Neural Network that supports images, videos, and live feeds. Improved model efficiency and performance via dataset creation, augmentation, and fine-tuning
  - Built a GUI desktop application with PDF report generation for detailed fault detection results, enhancing quality control processes

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 desktop application for generating organized resumes from questionnaires, storing student data in SQLite with role-based access for students and administrators

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**: