Avaneesh Khandekar

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Education

- **University of Florida**
  *Master of Science (M.S.) in Computer Science (GPA: **3.96** / 4.00)*
  Gainesville, FL
  August 2023 - May 2025

- **University of Pune**
  *Bachelor of Engineering (B.E.) in Computer Engineering (GPA: **8.78** / 10.00)*
  Pune, India
  August 2016 - May 2020

Skills

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

Experience

- **Citizens Property Insurance Corporation**
  Information Technology Intern
  Jacksonville, FL
  June 2024 – August 2024

  - Developed a conversational **Retrieval-Augmented Generation (RAG)** chatbot using **LangChain** to provide real-time financial and budget insights, leveraging advanced **NLP** for high-accuracy query responses
  - Built a robust **SQL data pipeline** to convert raw financial data into normalized tables, enhancing query efficiency and system performance
  - Built a user-friendly **Streamlit** UI for the **chatbot** and deployed it on **Azure**, improving accessibility

- **Tata Consultancy Services Ltd.**
  Systems Engineer (Full Stack Developer for the Vanguard Group)
  Pune, India
  August 2020 – June 2023

  - Developed **RESTful microservices** and **Angular UI** applications hosted on **AWS Cloud**, replacing legacy systems with high-performance software solutions. Led technical efforts as an **interim technical lead**, ensuring timely delivery of project milestones
  - Built an **event-driven** text notification system using **AWS Lambda** and **SNS**, achieving an **80% reduction** in missed appointments via automated real-time reminders
  - Built an AWS-based data pipeline to extract, transform, and load **(ETL)** mainframe data, integrating tasks into **MS Dynamics CRM** for seamless workflows
  - Implemented **multi-region cloud contingency** for disaster recovery and resiliency, ensuring **99.99% uptime**
  - Enhanced data security compliance by developing a custom **PII data masking** library for JSON log files
  - Automated **end-to-end** and **integration** testing using **behavior-driven development** frameworks like **Cucumber**
  - Conducted training sessions on Python, Java, AWS, Angular, and Agile improving team proficiency

- **Symphony Technologies Pvt. Ltd.**
  Part-time Project Intern (Capstone Project Undergrad)
  Pune, India
  July 2019 – April 2020

  - Designed a **computer vision**-based **defect detection system** POC for fuse box assembly using **TensorFlow** and **Faster R-CNN**, automating quality control and reducing costs
  - Developed a **Java GUI application** with **PDF reporting** for detailed fault analysis, **supporting image, video, and live feed** inputs
  - Improved system accuracy through **dataset augmentation** and **model optimization** techniques

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 retention
- **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**: ⬈
- **Earned 5 Awards at Tata Consultancy Services**: For excellent performance and being a key team member
- **Academic Achievement Award at University of Florida**: $4,500 scholarship for outstanding overall performance in undergraduate studies