

# AKSHATHA SRIKANTHA

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7324 Palo Verde Rd, Irvine CA, 92617

## EDUCATION

University of California, Irvine, California Master of Computer Science	GPA 3.9	Sep 2024–Present
MVJ College of Engineering, Bangalore Bachelor of Engineering	GPA 3.82	Aug 2017 – June 2021

## EXPERIENCE

<b>IBM- Data Engineer - Big Data Domain</b>	Oct 2021 – June 2024
<ul style="list-style-type: none"><li>Optimized actuarial data processing pipelines using <b>Python</b> and <b>PySpark</b>, reducing system runtime by <b>80%</b>.</li><li>Developed and maintained <b>scalable actuarial data storage solutions</b> with <b>MongoDB</b> and <b>Java</b>, ensuring high availability for risk modeling. Designed and implemented <b>RESTful APIs</b> to serve actuarial insights, enabling seamless querying for actuaries and data scientists.</li><li>Collaborated with <b>cross-functional teams</b> to aggregate and process large actuarial datasets for <b>financial forecasting</b>.</li><li>Leveraged <b>Apache Airflow</b>, <b>Delta Lake</b>, and <b>Spring Boot</b> to enhance data workflow automation and system scalability.</li></ul>	
<b>UC Irvine - Grader - EECS 180B: Principles of Electrical Engineering</b>	Apr 2025 – Present
<ul style="list-style-type: none"><li>Graded advanced assignments on circuit analysis, phasors, and EM waves with rubric-based accuracy.</li><li>Worked with the instructor and TA to maintain standards and address student queries promptly.</li></ul>	

## RESEARCH EXPERIENCE

<b>Research Assistant – Anatomy and Neurobiology Lab, UC Irvine</b>	Apr 2025 – Present
Working on experiments under Dr. Kei Igarashi, exploring how entorhinal-hippocampal circuits are affected in Alzheimer's disease, using mouse models. I assist with in vivo calcium imaging, behavioral testing, and process neural signals using MATLAB, Python, and NeuraLynx to study memory-related activity patterns.	

## TECHNICAL SKILLS

**Programming Languages & Databases:** C, C++, Python, Java, HTML, CSS, JavaScript, R, SQL, MongoDB  
**Tools:** Git, Colab, AWS, CI/CD, REST API, Jupyter  
**ML Frameworks:** PyTorch, Sklearn, Numpy, Pandas, Keras, TensorFlow, Gemini API  
**Certifications:** Cloud Practitioner, Azure fundamentals (AZ-900)

## PROJECTS

<b>Title: “Pic2Plate - AI Powered Recipe Recommendation System”</b>	Jan 2025 – Present
<ul style="list-style-type: none"><li>Built a cross-platform mobile app using <b>Flutter</b> that detects ingredients from user-uploaded fridge images and suggests recipes in real time.</li><li>Integrated <b>Amazon Rekognition API</b> for ingredient identification and <b>RapidAPI</b> for dynamic recipe retrieval based on detected inputs.</li><li>Implemented backend logic for data preprocessing, API handling, and optimized UI responsiveness to deliver a seamless user experience.</li><li>Collaborated on system design, image classification logic, and scalable architecture for future integration of personalized meal planning modules.</li></ul>	
<b>Title: “Sales Win-Loss Classification using Machine Learning Models”</b>	Jan 2024 – Mar 2025
<ul style="list-style-type: none"><li>Built a predictive model to classify B2B sales outcomes (win/loss) using features such as client revenue, region, and sales stage duration.</li><li>Preprocessed data with <b>LabelEncoder</b> and <b>StandardScaler</b>; visualized patterns using <b>Seaborn</b> (count and violin plots).</li><li>Trained and evaluated <b>Logistic Regression</b>, <b>KNN</b>, <b>Naive Bayes</b>, and <b>Random Forest models</b>; performed hyperparameter tuning.</li><li>Achieved <b>84.68% accuracy</b> with a soft voting ensemble classifier, outperforming individual models through strategic model combination.</li></ul>	
<b>Title: “Dynamic Code Processing with JIT Compilation”</b>	Sept 2024 – Dec 2024
<ul style="list-style-type: none"><li>Built a C-based system that turns input into executable code on the fly. The project includes a lexer to break down input, a parser to build an abstract syntax tree (AST), and a just-in-time (JIT) compiler to generate machine code dynamically.</li><li>Focused on optimizing performance with efficient memory handling and streamlined the build process using Makefiles.</li></ul>	
<b>Title: “Emotional stress recognition system using EEG and physio psychological signals”</b>	Jan 2021
<ul style="list-style-type: none"><li>The purpose of this project is to recognize the <b>emotional stress</b> a person is experiencing, by analyzing the <b>data</b> collected through the <b>EEG</b> module. The signals are filtered out for excess noise and only required data is captured for analysis using Support Vector Machine algorithm and Genetic Algorithm.</li><li>As a first author alongside 2 of my professors, this paper was presented in a <b>conference</b> at the 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICA ECA) and published in <b>IEEE</b>.</li><li><a href="#">IEEE Conference Paper</a></li></ul>	