AAYUSH PARIKH

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EDUCATION

Arizona State University	**August 2024 – May 2026**
Master of Science in Computer Science — CGPA: 3.9/4.0	*Tempe, Arizona*
University of Mumbai	**December 2020 – May 2024**
B.Tech in Computer Science with Honors in Intelligent Computing — CGPA: 3.8/4.0	*Mumbai, India*

TECHNICAL SKILLS

Languages & Frameworks: Python, C, C++, JavaScript, Java, SQL, Kotlin, Latex
Tools & Platforms: MongoDB, Google Cloud Platform, Docker, Kubernetes, Jetpack Compose, Github, PowerBI, AWS, NoSQL
Frameworks & Libraries: ReactJS, React Native, Node JS, Room, MongoDB, Bootstrap, Tensorflow, Redux, Keras

PROFESSIONAL EXPERIENCE

Acodesoft Technologies LLP　　　　　　　　　　　　　　　　　　　　　　**June 2023 – September 2023**
Software Development Intern

- Developed and maintained web applications using **Node.js, React.js, and REST, improving page load times by 30% (1.5s faster)**. Deployed on **AWS EC2 for scalability** and utilized **AWS S3** for efficient media storage.
- Enhanced development workflow by implementing **CI/CD pipelines using Jenkins, reducing deployment time by 40%** and **incorporated authentication and authorization using JWT and OAuth**, ensuring secure user access and data protection.
- Employed Redux and for state management, optimizing data flow and user interactions across complex web applications, and **utilized Git for version control in Agile development processes**, optimizing collaboration on complex web applications.

TechData Solutions : Data Science Intern　　　　　　　　　　　　　　　**July 2022 – October 2022**
Data Science Intern

- **Performed exploratory data analysis (EDA)** on student performance and enrollment trends, uncovering key insights which led to a **12% improvement in course design** and better alignment of the curriculum with student needs.
- Collaborated in a team of 4 to build a course recommendation system deploying a **matrix factorization (SVD) model, achieving 87% precision in matching students with relevant courses, boosting enrollment rates by 14%.**
- **Automated data collection using SQL**, ensuring clean and reliable data for analysis by streamlining data retrieval, validation, and storage processes efficiently.

PROJECTS

CoffeeShopAI-Chatbot | *ReactNative,Python,LLMs, RAG*

- Built a full-stack chatbot for a coffee shop using **React Native, Python, and LLMs**, enabling order taking, menu assistance, chat filtering, and product recommendations. **Deployed on RunPod's serverless architecture** for seamless performance.
- **Integrated a retrieval-augmented generation (RAG) system** to revise the chatbot's response accuracy leveraging personalized data from the coffee shop's database.
- Implemented a system to identify and filter out irrelevant user questions, **achieving a 91% success rate in maintaining conversation focus**. Our project earned **first place at SunHacks '24, along with a $1500 cash prize**.

PantryPro | *React.js,RESTAPI,SpoonacularRecipeAPI,MongoDB,Node.js*

- Designed and developed in a team of 2, **a web application using the Spoonacular Recipe API** to suggest personalized recipes based on user-provided ingredients, simplifying meal planning, and increasing user convenience.
- **Leveraged Kroger API for real-time product availability and pricing**, enabling automated grocery list generation and upgrading shopping efficiency.

FitFreak | *Kotlin,JetpackCompose,WearOS SDK*

- **Engineered a Wear OS health-tracking application in Kotlin, integrating the Google Fit API** to track and evaluate user's heart rate, steps, and calories while providing important health information.
- **Reduced battery consumption by 15% through efficient use of background services and the Wearable Data Layer API**, boosting app performance and extending device usability.

PUBLICATIONS

- **A Multi-label Classification Approach to Detect Types of Traumas on Social Media**: Developed a multi-label classification model to detect 22 types of trauma in Reddit posts, achieving 94% accuracy for single-label and 72% accuracy for multi-label classification using LGBM and RAKELO.
- **Cryptocurrency Price Prediction using Regression Models on Momentum Indicators**: Modelled a cryptocurrency price prediction model using momentum indicators (RSI, MACD, ADX), achieving 99.81% accuracy with Gradient Boost regression, aiding traders in making informed investment decisions with minimal error.