AAYUSH PARIKH

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EDUCATION

MS in Computer Science Graduation May 2026
Arizona State University, Tempe, AZ 3.89 GPA
Relevant coursework: Mobile Computing, Foundation of Algorithms, Information Assurance and Security

B.Tech in Computer Engineering with Honors in Intelligent Computing Graduation May 2024
University of Mumbai 9/10 GPA
Relevant coursework: Analysis of Algorithms, Computer Networks, Artificial Intelligence, Machine Learning, Web Development, Advanced Database Management Systems

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, HTML/CSS, JavaScript, Dart, Kotlin, Latex
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio, Jetpack Compose, GitHub, PowerBI
Frameworks/Libraries: React JS, React Native, Node JS, Power BI, Room, MongoDB, Bootstrap, TensorFlow, Keras, Redux

PROFESSIONAL EXPERIENCE

Acodesoft Technologies LLP : Software Development Intern June 2023 – Sep 2023
- Developed and optimized Android applications using Kotlin, implemented Jetpack Compose for building modern UI components, leading to a 15% reduction in development time and a more seamless user experience across devices.
- 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.
- Integrated AWS Amplify for backend services and real-time data sync.

TechData Solutions : Data Science Intern July 2022 – Oct 2022
- Performed exploratory data analysis (EDA) on student performance and enrollment trends, identifying key insights that influenced course design improvements by 12%, optimizing curriculum alignment with student needs.
- Built a course recommendation system utilizing a Matrix Factorization (SVD) model, achieving 87% accuracy in matching students with relevant courses, contributing to a 14% increase in enrollment rates.
- Utilized SQL for automating data collection processes, ensuring clean, reliable data ready for analysis.

ACADEMIC PROJECTS

Coffee Shop AI-Chatbot: React Native, Python, LLMs
- Developed a full-stack chatbot application for a coffee shop using React Native, Python, and LLMs. The application includes features such as order taking, menu information, irrelevant conversation blocking, and product recommendations. The chatbot was deployed using RunPod, a serverless platform that simplifies the deployment of AI models.
- Implemented a retrieval augmented generation (RAG) system to enhance the chatbot's ability to generate responses based on personalized data from the coffee shop's database.
- Implemented a system to identify and filter out irrelevant user questions, achieving a 90% success rate in maintaining conversation focus. For this project, my team won the Won the Hackniche '23 and received a cash prize of $1500.

PantryPro: React.js, Edamam Recipe API, Walmart API, MongoDB, Node.js.
- Designed and developed a web application using the Edamam Recipe API to suggest personalized recipes based on user-provided ingredients, simplifying meal planning and enhancing user convenience.
- Integrated the Walmart API for real-time product availability and pricing, enabling automated grocery list generation while optimizing API calls to achieve a 40% reduction in app load time.

FitFreak: Kotlin, Jetpack Compose, WearOS SDK
- Developed a comprehensive health-tracking Wear OS application using Kotlin, seamlessly integrating the Google Fit API to monitor and analyze user activity data, including steps, calories, and heart rate, providing valuable health insights.
- Designed intuitive and customizable watch face UIs with Jetpack Compose, streamlining the UI development process by reducing development time by 20% while enhancing user satisfaction through improved usability and aesthetic appeal.
- Optimized battery consumption by 15% through efficient use of Wearable Data Layer API and background services, enhancing 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.

Meteorology Driven Air Quality Prediction: Predicted Air Quality Index (AQI) using 11 meteorological parameters with Random Forest, achieving 98.42% accuracy and 0.0629 MSE, demonstrating robust performance in noisy data environments for AQI classification.