

Kathan Sunil Pathak

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Education

Loyola Marymount University, Los Angeles, California CGPA - 4.61/5.0 Master of Science in Computer Science	August 2023 - May 2025
Pandit Deendayal Energy University, Gandhinagar, India CGPA - 4.5/5.0 Bachelor of Engineering in Information and Communication Technology	August 2018 - May 2022

Work Experience

Loyola Marymount University Graduate Research Assistant Kubishi Research Group (Software Development) <ul style="list-style-type: none">Conducted advanced research on image generation automation, enhancing image processing capabilities through innovative AI tools.Integrated the ChatGPT OpenAI API to develop a streamlined interface for generating images, utilizing precise prompt engineering techniques.Designed and implemented a dynamic prompt modification function using OpenAI's tools, improving accuracy and relevance in generated images.Employed civit.ai to generate diverse images and leverage fine-tuned models, advancing the capability for producing high-quality outputs.	January 2024 - Present
lage Solutions Pvt. Ltd Developer Mobile Application (Software Development) <ul style="list-style-type: none">Engineered a retail-focused mobile application by reworking an existing POS solution, originally built with PowerBuilder for UI and Oracle for business logic.Implemented a robust API layer in Spring Boot, leveraging Spring Boot JDBC frameworks to implement complex business logic and enable seamless integration with third-party POS systems.Designed and optimized user interfaces across both React Native and Flutter, improving cross-platform performance and user experience.Implemented strong expertise in API development, UI/UX design, and system integration, contributing to streamlined inventory, stock, and sales management.	January 2022 - January 2024
Acute informatics Pvt. Ltd Developer GestureTunes Mobile Application (Machine Learning Engineer) <ul style="list-style-type: none">Engineered a smart music application utilizing machine learning libraries, including TensorFlow and Keras, to implement a hand gesture recognition model (Hand Landmarks).Built a user-friendly interface in React Native, enabling users to control playback functions such as play, pause, rewind, and skip through various hand gestures.Integrated the Spotify API, implementing OAuth for secure authentication and consuming API endpoints to enhance user interaction and music management.Demonstrated proficiency in machine learning, mobile application development, and API integration through this innovative project.	January 2020 - December 2021
Acute informatics Pvt. Ltd Developer Netbanking Solution (Software Development) <ul style="list-style-type: none">Implemented an online net banking solution with an API-based architecture using Java Spring, enabling integration with Core Banking Solutions.Built the business logic layer in Node.js and Java, improving system performance.Wrote PL/SQL queries for Oracle database integration, optimizing data handling.Converted SOAP API data to JSON format to build diverse services, ensuring seamless communication between components.Designed and implemented REST API endpoints using Spring Boot and Node.js, adhering to best practices in API development.Published and integrated APIs for reliable data flow and access across the banking platform.	January 2019 - December 2019

Skills and Technologies

Programming Languages: Java, React, React Native, Vanilla.js, Next.js, Angular.js, Node.js, HTML, CSS, Python, SQL, C, R, Flutter
Tools and Technologies: Linux, Git, MySQL DB, Oracle DB, Docker, Kubernetes
Machine Learning: Data Analysis, Linear Regression, Logistic Regression, Ensemble Models, Decision Trees, Clustering, Classification

Projects

Loan Originating System (Software Development) <ul style="list-style-type: none">Designed a Loan Originating System(LOS) module focused on credit score prediction through intricate model optimization. Leveraged the resulting credit scores to fine tune a complementary model, facilitating precise loan prediction and approval.Implemented various machine learning algorithms and functions and fine tune with hyperparameters for better accuracy and precision.	August - 2023 - November - 2023
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