Gaurav Mishra

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Profile

Computer Science graduate with a strong foundation in AI/ML, focused on building intelligent, user-centric solutions. Skilled in React Native for cross-platform app development, with additional proficiency in Swift, SwiftUI, and UIKit. Currently learning LangChain and LLMs to deepen my AI expertise.

Skills

Programming: C/C++, Python, Swift, JavaScript, SQL
Development: iOS applications, Cross-platform applications, Mern Stack
AI/ML: Generative AI, Deep Learning, NLP, Prompt Engineering, Langchain, Hugging Face
Tools: GitHub, Xcode, VS Code, Android Studio, Jira, Firebase, Supabase, Appwrite, Cursor AI, OpenAI
Dev Practices: Agile, Daily Stand-ups, Sprint Planning, Git, REST APIs
Core Subjects: Data Structures & Algorithm, Database Management System

Work Experience

iOS developer, Infosys Limited (Infosys Consulting) **LINK** — **Jun 2024 - Jul 2024**

- Designed and enhanced a Training and Learning Management System (TLMS) to improve operational efficiency.
- Developed reusable Swift code modules, reducing development time by 25%.
- Actively participated in daily stand-ups and sprint planning meetings, following Agile methodologies.

Technologies Used: Swift, SwiftUI, UIKit, Firebase, Agile, Git.

Projects

Advanced Acne Detection using Modified RESNET-50 — **Aug 2024 - May 2025** — **Research Paper**

- Built a ResNet-50 model for acne severity classification with 92.4% accuracy on the ACNE04 dataset.
- Applied transfer learning, data augmentation, and cosine annealing for better generalization.
- Used precision, recall, F1-score, and accuracy to evaluate model performance.
- Visualized results using confusion matrix and training loss/accuracy graphs.

Technologies Used: PyTorch, Python, torchvision, sklearn, matplotlib.

AlzyCare - iOS Application for Medical Care — **Mar 2024 - Jun 2024** — **Demo**

- Developed a comprehensive iOS application, AlzyCare, designed for Alzheimer's caregivers, integrating personalized assessments and activity planning to support cognitive health and improve patient care.
- Integrated the SAGE test with 95% accuracy for cognitive function assessment.
- Designed memory-enhancing exercises and reminiscence therapy using AVFoundation.
- Added a meditation area and progress tracker with a built-in calendar for daily monitoring.

Technologies Used: Swift, SwiftUI, UIKit, AVFoundation, Firebase, CoreData.

NeckEase - Web Application for Medical Care — **Mar 2024 - Apr 2024** — **Repo Link**

- Created an ML solution and integrated it into a web application.
- Utilized camera access to detect prolonged neck immobility and improper posture, prompting users to perform targeted exercises to prevent cervical issues.
- Implemented innovative algorithms for proactive movement reminders and posture correction, enhancing user wellness.

Technologies Used: Python, TensorFlow, OpenCV, Flask, JavaScript.

Extra Curricular Activities

Finalist – Dextrix 4.0 Hackathon (Organized by Galgotias University) — **April 2024**

- Developed an ML-based posture correction app with real-time feedback and personalized exercises.
- Hackathon experience enhanced teamwork, rapid problem-solving, and tech pitching skills under pressure.

iOS App Developer Bootcamp – Powered by Apple & Infosys — **Jan 2024 - Feb 2024**

- Completed an intensive bootcamp on iOS development using Swift, UIKit, and Apple's design standards.
- Learned user-centered app design, storytelling, pitching, and development using real-world case studies.

Smart India Hackathon 2023 – Finalist — **Dec 2023**

- Built a sentiment analysis system to detect customer emotions during care calls using ML and voice tone analysis.
- Focused on enhancing customer service quality through real-time emotion recognition.

Education

B.Tech – Computer Science (AI & ML) — **Galgotias University, Greater Noida | Oct 2021 – June 2025**
CGPA: 8.53