# Hardik Garg

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## EDUCATION

**B.Tech in Computer Science and Engineering**, Manipal Institute of Technology, Manipal 2022 – 2026

**Specialization:** Artificial Intelligence and Machine Learning
**Minor Specialization:** Digital Marketing

**Relevant Coursework:** Deep Learning, Database Management Systems, Big Data Analytics, Operating Systems, Data Structures and Algorithms, Object-Oriented Programming, Introduction To Data Analytics

## TECHNICAL SKILLS

**Languages:** Python, Java, C, Dart, SQL
**Frameworks/Tools:** Flutter, Android Studio, Tensors, Pandas, NumPy, Matplotlib, Git.
**Cloud & Tools:** Excel, Firebase, GitHub, Figma
**Soft Skills:** Leadership Qualities, Public Speaking, Event Management, Problem Solving

## Experience

**Software Research Intern, Raphe mPhibr, Noida** May 2025 – July 2025

- Developed an autonomous drone landing system capable of landing on moving targets such as ships, used softwares to coordinate multi-vehicle simulations.
- Developed a Python-based interface to control and communicate with a Camera, enabling media capture and integration with a Ground Control Station.
- Designed C++ modules to integrate Autopilot software with AI algorithms for real-time UAV control

**Android Development Intern, Manipal Institute of Technology, Manipal** June 2024 – July 2024

- Developed an online ticket booking application using Java and Firebase for the backend.
- Acquired and deepened knowledge in native Android development with Java.

**App Development Head, ACM [Association for Computing Machinery], Manipal** Sept 2024 - Sept 2025

- Mentored a 110-member team in Flutter and native Android development while leading projects like an ACM app and a cross-domain recommendation system.

## Projects

**FeelAI – Adaptive Emotion Recognition Chatbot with App** github.com/GhouLsus

- Developed a voice-enabled mental health chatbot using LLaMA-70B and Retrieval-Augmented Generation (RAG) to deliver CBT-aligned, empathetic responses. Implemented real-time sentiment analysis with a custom DistilBERT model trained on the EmpatheticDialogues dataset, integrated semantic search with FAISS, created a mobile app for accessible therapeutic support.
- Tools Used: Python, PyTorch, FastAPI, FAISS, DistilBERT, LLaMA-70B, Flutter, Firebase, OAuth 2.0.

**Travelpedia – Mobile Application for Travelers**

- Developed a feature-rich Android application to assist travelers in destination discovery and trip planning. Implemented modules for accommodation details, ticket generation with unique barcodes/IDs, and direct guide communication via SMS/call. Optimized real-time data synchronization and authentication using Firebase, ensuring seamless user experience across devices.
- Tools Used: Java, Android Studio, Firebase

**Customer Churn Prediction using XGBoost and Artifical Neural Networks**

- Designed and implemented a hybrid customer churn prediction system for the telecom sector, combining XGBoost and artificial neural networks (ANN) via a meta-learning architecture. The system leveraged advanced feature engineering techniques like categorical encoding, and numerical scaling, achieving 89.7% accuracy.
- Tools Used: Python, XGBoost, TensorFlow, Keras, scikit-learn, NumPy, Pandas