

Adivya Induraj

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EDUCATION

Manipal Institute of Technology
B-Tech in Computer Science and Engineering

Bengaluru, KA
Aug. 2022 – May 2026

EXPERIENCE

Data Scientist - Intern June 2024 – August 2024
T-Systems ICT (Subsidiary of Deutsche Telekom) Bengaluru, KA

- Developed a secure, offline mass-translation framework using pre-trained ML models, containerized with Docker and Kubernetes for deployment.
- Built and optimized models for ticket resolution time prediction (gradient boosting) and ticket volume forecasting (XGBoost, LSTMs, Bi-LSTMs, ARIMAX, Prophet) with automatic evaluation and selection.
- Designed interactive dashboards in Python (PlotlyExpress, Dash) and PowerBI to visualize insights effectively.

Full-Stack Engineer December 2024 – January 2025
LivePlay Remote

- Led a team to re-engineer a sports event management platform using Next.js and Supabase.
- Created user workflows & resolved critical bugs, enhancing platform stability & UX for a successful launch.
- Implemented user authentication with WhatsApp OTP via Supabase & integrated Razorpay for secure payments

HACKATHONS AND CONFERENCES

Schneider Electric - Hackathon (CTF) | *Schneider Electric, December 2024*

- Placed 3rd out of over 35 teams and captured all 4 flags in half the event duration. Utilized various techniques in steganography, network analysis and interception, and reverse-engineering with Ghidra.

ACM India - Full Stack Networking Conference | *IIIT-Delhi, December 2023*

- Attended the conference covering Linux Networking, Container Networking, and Edge Application Development.
- Built various networks and a complete edge computing application during the sessions.

PROJECTS

Insight Engine - An Automated ML and Data Analytics Platform | *Python, EDA, Seaborn, Pytorch*

- Developed an automated ML platform that analyzes datasets and recommends optimal ML approaches.
- Built an intelligent feature engineering pipeline for automatic data preparation in classification, regression, and time series tasks.
- Created a model selection system to evaluate ML algorithms and an interactive dashboard for real-time analytics.

Fully Homomorphic Encryption Based Invisible Image Watermarking | *Python, Concrete-ML, FHE, Gradio*

- Utilized Fully Homomorphic Encryption (FHE) to compute directly on encrypted data, without needing decryption, ensuring impenetrability and quantum safety by design. [Read the Technical Report.](#)
- Implemented a privacy-preserving watermarking system that encrypts 32×32 grayscale images, embeds an invisible LSB watermark, and integrates a Gradio interface for real-time processing and watermark verification.

Real-time Multi-user Chat Application with an Integrated AI | *Python, Socket Programming, OpenAI API*

- Developed a real-time terminal chat application with public and private messaging.
- Integrated OpenAI API for intelligent, automated user responses.
- Implemented user management, connection handling, port selection, custom commands, & robust server operations.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (Postgres), JavaScript, HTML/CSS, R, Nix, Dart, Kotlin

Frameworks: React, Flutter, Supabase, Node.js, Flask, JUnit, WordPress, Next.JS, Tailwind, FastAPI

Developer Tools: Git, Docker, Kubernetes, Google Cloud Platform, Bash Scripting, Linux, PyCharm

Libraries: Pandas, NumPy, Matplotlib, Keras, Tensorflow