

ARSLAN RANA

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SUMMARY

AI/ML Engineer with a strong foundation in Machine Learning and Data Science. Experienced in developing end-to-end ML pipelines including data preprocessing, exploratory data analysis (EDA), model training, evaluation, and deployment. Skilled in both supervised and unsupervised learning techniques including Linear & Logistic Regression, Decision Trees, Neural Networks, and Clustering. Proficient in integrating trained ML models into scalable web applications using FastAPI, Flask, and Next.js.

WORK EXPERIENCE

Jan 2025 – Mar 2025

AI Engineer Intern, The Hexaa – Lahore

- Developed supervised and unsupervised ML models for real-world applications.
- Created and deployed AI services using Python & FastAPI with Docker.
- Integrated ML models into RESTful APIs for seamless frontend-backend connectivity.
- Contributed to full AI pipelines from data prep to deployment.

PROJECTS

Machine Learning Projects

Supervised Learning & EDA:

Analyzed weather data using Pandas/Seaborn. Applied linear regression for house prices and logistic regression for spam detection.

Deep Learning & Tree Models:

Built decision tree and random forest models on the Iris dataset. Trained neural networks on MNIST using Keras with dropout and early stopping.

Unsupervised Learning:

Used k-means clustering with NumPy and Keras to explore and group unlabeled data for pattern discovery.

Voice AI Assistants (Vapi, Twilio, FastAPI)

Developed voice bots for booking, scheduling, and interviews, cutting delivery time by 30%. Integrated Vapi and Twilio with FastAPI, boosting accuracy by 15%. Improved success rates by 10% through cross-functional collaboration and real-time logic.

n8n Workflow Automation

Built automation flows integrating APIs, databases, and emails. Used n8n to develop human-in-the-loop systems with logic-based triggers. Deployed workflows on cloud and local servers with full webhook setup.

EDUCATION

BS Software Engineering

Aug 2021 - Aug 2025

- Superior University – Lahore, Pakistan

TECHNICAL SKILLS

- Frontend: React, Next.js, DASH, TypeScript, Tailwind CSS
- Backend: Python, FastAPI, Flask, Node.js, REST APIs
- AI/ML: Tensorflow, API Integration, LangChain, Model Training, Embedding,
- RAG Automation: n8n (Webhooks, API Calls, Cloud & Local Setup)
- Voice AI: Vapi, Twilio, FastAPI (Voice Assistants, Scheduling, Booking)
- Databases: MongoDB, Firestore, SQLite, PostgreSQL
- DevOps: Docker, Git, Deployment