NIHAL KUMAR

Data Scientist

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SUMMARY

Data Scientist specialising in machine learning, NLP, and generative AI applications. Built and deployed production-ready systems, including multimodal RAG applications and AI voice agents. Proficient in Python, LangChain, TensorFlow, and MLOps with strong problem-solving abilities (HackerRank 4-star, 158 LeetCode problems solved).

PROFESSIONAL EXPERIENCE

Artificial Intelligence and Machine Learning Intern
Edulyt India | 2025

- Developed and deployed ML models through a structured lifecycle, increasing predictive accuracy by 15% via optimized preprocessing and feature engineering.
- Cleaned and transformed 100K+ data records using Pandas/Numpy to enhance data quality and pipeline efficiency.

Data Science Intern
Allsoft Solutions (IBM Partner) | 2023

- Gained hands-on experience in ML, data wrangling, and preprocessing through guided project-based training.
- Built and validated end-to-end ML models using Scikit-learn, improving prediction accuracy by 10% via advanced feature selection.

SKILLS

Programming & Libraries: Python (DSA), NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn, OpenCV

Machine Learning and Deep Learning: Regression, Classification, Clustering, Decision Trees, Random Forest, XGBoost, SVM, ANN, CNN, RNN, etc.

NLP & LLM Tools: Hugging Face Transformers, LangChain, LangGraph, API, NLP Cloud

MLOps & Tools: MLflow, DVC, Optuna, Dagshub, Docker, Kubernetes, CI/CD (GitHub Actions), Git and GitHub

Cloud & Deployment: AWS, Heroku, Hugging Face, Render

Database: MySQL, MongoDB, Vector DB

Data Visualization & Analytics Tools: Excel, Power BI

Frameworks: TensorFlow, sklearn, Flask, FastAPI

EDUCATION

Master of Computer Applications (MCA)
Amity Noida | Pursuing (Expected 2026)
CGPA: 8.00 (current)

Bachelor of Computer Applications (BCA)
SGTBIMIT (GGSIPU) | 2021 - 2024 |
CGPA: 8.82

PROJECTS

iPDF_Multymodal_RAG_Application_for multiple_PDF

- Built a multi-model RAG application using LangChain, FAISS, and Qdrant, enabling hybrid vector search and intelligent document querying.
- Integrated Gemini and Groq APIs for multimodal reasoning to generate accurate, context-aware responses from PDF data.
- Github: https://github.com/Niair/Mobile-Device-Data-Insights-Using-EDA
- App Link: https://niair-ipdf-srcuiapp-jrucow.streamlit.app/

ZenTaa – Hinglish AI Voice Agent

- Developed an AI voice assistant with real-time STT (OpenAI on Hugging Face) and TTS (ElevenLabs) supporting natural Hinglish conversations.
- Powered by Gemini and Groq, delivering contextual, human-like voice interactions through a responsive conversational loop.
- Github: https://github.com/Niair/Book-Recommender-System

Customer Churn prediction using MLOpps and CI/CD

- Predicted telecom customer churn using end-to-end Machine Learning with MLOps best practices (CI/CD with MLflow, Docker, GitHub Actions).
- Developed a Streamlit app achieving 91% accuracy and 92% AUC-ROC, enabling real-time predictions for business stakeholders.
- GitHub: https://github.com/Niair/Customer_Churn_Prediction_using_MLOpps_MLflow_AWS_CI-CD
- App Link: https://huggingface.co/spaces/NihalNiair/customer_churn_app_using_cicd

ACHIEVEMENTS

- LeetCode: Solved 158 problems (76 Easy, 77 Medium, 5 Hard) | Beats 89.3%
- HackerRank: 4-star rating in Problem Solving

VOLUNTEERING EXPERIENCE

Teacher | Robin Hood Army | Sep 2025 - Present

- Provide educational support and mentorship to children through community teaching initiatives