

# NIHAL KUMAR

## Data Scientist

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## SUMMARY

I am a data science enthusiast skilled in turning raw data into actionable insights through advanced analytics and visualisation. With a proactive learning mindset and strong technical expertise, I aim to deliver impactful results and enable businesses to make informed decisions

## PROFESSIONAL EXPERIENCE

### Artificial Intelligence and Machine Learning Intern

Edulyt India | 2025

- Developed and deployed ML models through a structured lifecycle, improving model accuracy by 15% through optimised preprocessing and feature engineering.
- Cleaned and processed 100K+ data records using Pandas/NumPy, improving model accuracy by 15%.

### Data Science Trainee

Allsoft Solutions (IBM Partner) | 2023

- Gained hands-on experience in machine learning, data wrangling, and preprocessing through structured training and guided project development.
- Built end-to-end ML models with Pandas/Scikit-Learn, enhancing prediction accuracy by 10% through advanced feature engineering.

## SKILLS

**Programming & Libraries:** Python, 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.

**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

**Data Visualization & Analytics:** Excel, Power BI

**Frameworks:** TensorFlow, sklearn, Flask, Django, 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

### Customer Churn prediction using MLOps 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\\_MLOps\\_MLflow\\_AWS\\_CI-CD](https://github.com/Niair/Customer_Churn_Prediction_using_MLOps_MLflow_AWS_CI-CD)
- App Link : [https://huggingface.co/spaces/NihalNiair/customer\\_churn\\_app\\_using\\_cicd](https://huggingface.co/spaces/NihalNiair/customer_churn_app_using_cicd)

### Book Recommender System:

- Built a recommendation engine using collaborative filtering & popularity-based algorithms, achieving 85%+ accuracy in top-N suggestions.
- Deployed a Streamlit + Flask app integrating an external API to deliver real-time book recommendations, boosting user engagement.
- Github: <https://github.com/Niair/Book-Recommender-System>

### Smartphone Dataset: Data Preprocessing & EDA

- Processed and cleaned a dataset of over 50,000 smartphone records using Python (Pandas, NumPy), resolving missing values and optimizing feature consistency.
- Uncovered key usage patterns through visual analytics, contributing to 15% better feature selection and improved model interpretability.
- Github: <https://github.com/Niair/Mobile-Device-Data-Insights-Using-EDA>

### Power BI Sales Performance Dashboard

- Designed an interactive Power BI dashboard using AdventureWorks data warehouse to track KPIs such as Total Sales, YoY Growth, and YTD performance.
- Implemented drill-down analytics by sales reps, regions, and products, enhancing sales visibility and decision-making efficiency.
- Delivered insightful visualizations (top products, regional trends, cumulative growth) to support strategic planning.
- Github: <https://github.com/Niair/Mobile-Device-Data-Insights-Using-EDA>