Nakul Kumar

Data Science Professional

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₽ Profile

Versatile **Data Science Professional** skilled in building scalable applications and delivering insights. With **3+ years** of Python experience, I completed **10+** projects in machine learning, deep learning, and data analysis. Proficient in **deploying models** and leveraging innovative tools to drive results.

🖶 Professional Experience

Machine Learning Intern, Roastify

08/2024 – 01/2025 | Gurugram

- Collaborated with data scientists to optimize **ML models** using Python (scikit-learn, TensorFlow), improving predictive accuracy by 12%.
- Preprocessed data (cleaning, transformation, feature engineering) to boost quality and efficiency by **20%**, improving model reliability.
- Implemented **hyperparameter tuning**, and cross-validation to refine models and enhance overall performance.

Survey Analyst, CrownIt (GoldVIP Technology Solutions)

03/2022 – 11/2023 | Gurugram

- Designed and maintained 500+ complex survey data systems, reducing errors by 25% and enhancing data integrity.
- Streamlined **ETL workflows** and automated survey programming, cutting processing time by **30%** and ensuring timely insights for clients like **Nielsen** and **Amazon**.
- Analyzed survey data in **Python** to inform business decisions, collaborating with cross-functional teams.

P Skills

Python: Pandas, NumPy, Scikit-learn, TensorFlow

Machine Learning: Regression, Classification, Clustering

Deep Learning: ANN, CNN, RNN, Model Optimization

Data Analysis: Data Cleaning, Data Wrangling, Feature Engineering, Statistical Analysis

Natural Language Processing: Text Processing, Tokenization, Lemmatization, Stemming, Word Embeddings,

Sentiment Analysis

Data Visualization: Power BI, Matplotlib, Seaborn

Other Tools: Jupyter Notebook, VS Code, MySQL, Git, Excel

Projects

Customer Subscription Prediction Web Application

- Developed an **ML application** to predict customer subscriptions using behavioral and demographic data, improving model performance with validation and feature engineering.
- **Deployed** on Render, delivering real-time predictions with **90.4%** test accuracy and an **ROC AUC score of 0.93**.

NLP - TweetSentiment

• **Implemented** a Twitter sentiment analysis project leveraging advanced NLP techniques and diverse text representations, achieving an accuracy score of **77.13%** in sentiment classification.

• Explored **transformer-based** language models and **NLP techniques** to enhance performance, demonstrating analytical skills and expertise in advanced methods.

Resale Value Prediction Web Application

- Created a regression-based system to estimate vehicle resale values by analyzing factors like age, mileage, and condition. Enhanced model reliability with effective data preprocessing and outlier handling.
- Deployed on a scalable web platform, achieving MAE: 0.82, MSE: 3.39, and RMSE: 1.84 for precise valuations.

Certificates

Complete Machine Learning, NLP Bootcamp — Udemy

Data Science — Infosys SpringBoard

Python Programming — Udemy

& Education

Panjab University, Bachelor's of Computer Applications

05/2018 - 06/2021 | Chandigarh

Languages

English | Hindi | Punjabi

of Interests

Fitness | Automotive Enthusiast | Investing