Yash Kumar Roy

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Skills

- Python, Java, Basic JavaScript, Machine Learning, Gen AI, MySql, Excel, Tensorflow, Pytorch
- Data Analysis, Predictive Analysis, Data Visualization

Education

Liverpool John Moores University | U.K. Apr 26

Master of Science : Data Science

IIIT | Bangalore Jun 25

Executive Post Graduation Programme : Data Science & AI

GBPIET | Uttarakhand Aug 19 - Jun 23

B.Tech in CSE

Professional Experience

AI Variant Jul 23 - Mar 24

Data Science Intern

- Designed and deployed machine learning models using Python (Scikit-learn, Pandas, NumPy) to solve real-world business problems, analyzing datasets with over **250,000 records**.
- Created interactive dashboards and data visualizations that improved stakeholder understanding and accelerated decision-making by **30%**.
- Enhanced model accuracy and performance through regression models, feature engineering, and statistical analysis, improving forecast precision by **17%**.
- Delivered predictive analytic solutions that increased resource allocation efficiency by **15%**, reducing operational costs for the client by an estimated **10%**.

Projects

Telecom Churn Prediction | Aug 24

- Built a logistic regression model on a datasets of **7,043 customers** to predict churn.
- Engineered relevant features and handled data Preprocessing using Pandas and Scikit-learn, reducing model noise by **20%**.
- Achieved **93% prediction accuracy**, supporting a churn reduction strategy with the potential to retain **~25% more customers**.

Bankruptcy Risk Prediction | Mar 24

- Developed a Random Forest model on a datasets of **6,000+ firms**.
- Applied outlier handling and hyperparameter tuning (GridSearchCV), improving model performance by **13%**.
- Delivered a robust model with **91% accuracy**, enabling early identification of high-risk companies and reducing potential financial loss exposure.

Oil Price Prediction | Jan 24

- Implemented an **ARIMA** model to forecast oil prices using historical time series data.
- Utilized **time series decomposition and ADF tests** for stationarity checks and model validation.
- Achieved a **Root Mean Squared Error (RMSE) of 22.43**, enhancing pricing strategy insights.