Dinkar Thakur

Data Science Intern

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Education

IIT Guwahati **2023 - 2027**
BSc (Hons.) in Data Science And AI *Guwahati, India*

Technical Skills

Languages: Python, SQL(3 star Hacker Rank), Java

Frameworks: Pandas, NumPy, Scikit-Learn, Matplotlib

Tools: Power BI, Excel, MySQL

Platforms: Jupyter Notebook, Google Colab, VS Code

Projects

Business Intelligence and Sales Analytics Dashboard Project

- Analyzed sales, inventory, and customer data using **SQL** to find trends in revenue, products, and customer behavior.
- Evaluated inventory flow and promotion impact across channels to improve stock and campaign efficiency.
- Generated business insights on sales channels and customer value to support data-driven decisions.

Image Recognition System

- Developed a computer vision model to detect and track a specific person in a video, extracting the number of times they appear and the total duration of their appearances.
- Achieved high accuracy using OpenCV and deep learning models.
- Optimized performance through real-time object detection techniques.
- Successfully tracked multiple instances in dynamic environments.

Healthcare Analytics – Heart Attack Prediction

- Designed a machine learning model for heart attack prediction using logistic regression.
- Conducted extensive EDA to identify key risk factors associated with heart disease.
- Achieved 91% accuracy by optimizing feature selection and hyperparameter tuning.
- Incorporated data privacy techniques to handle sensitive healthcare data securely.

Election Data Analysis using Machine Learning

- Developed a supervised learning model to analyze election data and predict the winning party.
- Conducted Exploratory Data Analysis (EDA) to identify key factors influencing election outcomes.
- Implemented and compared logistic regression, decision trees, Naive Bayes, KNN, and SVM for classification.
- Utilized GridSearchCV for hyperparameter tuning, achieving optimal model performance.
- Visualized feature importance and relationships using correlation heatmaps, pair plots, and box plots
- Provided business insights for a news company to enhance election coverage and prediction accuracy.