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Nagraj Desai

Data Science

SUMMARY

A B.Tech graduate currently working as a Data Science intern, with hands-on experience in data manipulation, analysis, and deriving insights through ML and DL algorithms. Passionate about sharing knowledge, by writing blogs on Medium, staying updated with industry trends. Possesses strong problem-solving, communication skills, and a keen interest in applying data science to real-world business problems.

INTERNSHIP

Data Science Intern Jul '24 - Present

Taabi Mobility Ltd. (CEAT)

- Conduct D**aily Data Analysis** of vehicle performance, verifying data accuracy & consistency.
- Increased Event Prediction Agorithm accuracy from **99.5% to 99.62%** using raw data.
- Streamlined data extraction workflow, **reduced time by 77%**, from 3 hours to 40 minutes.
- Working on Driver Behaviour project which includes Data Extraction, EDA, Algorithm development and API creation.

KEY SKILLS

- **Technical skills:** Python, SQL, Machine Learning, Deep Learning, Statistics, MySQL, Power BI, MS Excel, Git & Github
- **Data Analysis skills:** Data Manipulation, EDA, Data visualization, Hypothesis testing, Predictive analytics
- **Python Frameworks/Modules:** Pandas, Numpy, Sklearn, Matplotlib & Seaborn, Tensorflow, Keras
- **Soft skills:** Problem-solving, Communication

KEY DATA SCIENCE PROJECTS

Eyes for the Blind: AI-Generated Captions

- **Objective**:Develop a Gen AI model that can accurately generate descriptive captions for images, enabling blind individuals to effectively understand visual content.
- **Solution**: Developed an **Encoder-Decoder** based deep learning model with **Attention mechanism** to generate speech-based image captions.
- **Key Achievemen**t: The model achieved an average **BLEU score of 0.7** on the Flickr8K dataset.

Predictive Modeling for Credit Risk Classification Using Machine Learning

- **Objective**: Analyse and classify customers into **4 categories** based on their credit history which helps in prioritizing customer.
- **Solution**: Developed ML models for multi class classification and used statistical techniques for cleaning and analysing data.
- **Key Achievemen**t: Selected XGBoost model with **77% accuracy.**

Predictive Analysis for Telecom Churn

- **Objective**: Identify patterns and key features indicating customer churn.
- **Solution**: Employed Data cleaning, Feature engineering, EDA, Class imbalance and dimensionality reduction (PCA) in data preprocessing. Developed Machine Leaning models, and did model tuning and model validation.
- **Key Achievement**: Created a XGBoost model with an **Recall of 95%**.

EDUCATION

Post Graduation Diploma in Data Science Sep '23 - Sep '24

IIIT Bangalore & upGrad Bengaluru, IN

B. Tech. Jun '19 - Jul '23

Shivaji University (Secured 8.94 CGPA) Kolhapur, IN

CERTIFICATIONS

- **Machine Learning** — Stanford Online | Coursera
- **Deep Learning** — DeepLearning.AI | Coursera

ACHIEVEMENTS

- Secured **1st rank** in Navapravartya a National level project competition 2023.
- Attained the **6th** position in University ranking in B.Tech 2023.