PRANJAL UMESH KALEKAR

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Education

Master of Science, Data Analytics Engineering

Northeastern University, Boston MA — GPA 3.902 | Expected May 2024

Database Management, Algorithms, Data Analytics, Data Mining, Computation & Visualization, Statistical Methods, RL

Professional Experience

Data Visualization Intern | Saint Louis University, USA, Virtual — October 2021 - November 2021

- Devised and executed an outcome-focused ad campaign strategy, resulting in a 15% increase in reach. Presented plan to stakeholders, showcasing communication skills
- Accomplished 5% monthly subscriber growth on Meta page through impactful A/B testing, demonstrating strong data analysis skills, especially in NLP for text data
- Designed interactive data visuals using Tableau, pandas, and Power BI to inform strategic decisions. Proficient in analytics, BI, statistics, and data science

Project Head & Computer Vision Intern | Eddy Tool & Tech Solutions, Mumbai, IND — July 2021 - September 2021

- Led an 11-person team to construct attention tracking system using facial landmarks for live/recorded sessions
- Coded with dlib, VSCode, Flask and GitLab to implement ML and computer vision algorithms in Python and CMAKE for absence, gaze and drowsiness control, framatic standard deviation, and movement variance
- Collaborated with senior team members for data warehousing, data cleaning, and other analytics to implement machine learning and computer vision algorithms to achieve 98% accuracy in every parameter

Technical Skills

Tech Languages: Improved skills in Python, R, MySQL, MS SQL, MATLAB, Cypher using competitive coding platforms
Databases: Experienced in MongoDB, MariaDB, Neo4j, Apache Spark, PostgreSQL, NoSQL, RDBMS
Tools: Handled tools such as GitHub, Tableau, MS Power BI, WordPress, Azure, AWS S3, Hadoop
Libraries: Programmed using libraries SciPy, pandas, Scikit-learn, dlib, Tensorflow, seaborn, PyTorch, Statistics, NLTK
Platforms: trained in Microsoft Excel, Google Colab, PyCharm, Git, Pyspark, MS Office, Unix/Linux, Agile, R Studio

Academic Projects

Northeastern University, Credrisk: a Credit Risk Forecasting Model | — January 2023 - May 2023

- Managed LendingClub's data pipelines, processing 100,000+ loan applications. Reduced anomalies by 20% and improved feature engineering using advanced fine-tuning. Classified loan risk levels to support lender decisions
- Conducted comprehensive statistical analysis, including chi-square tests, to identify key risk factors in loan data. Visualized data using Tableau dashboard and Python libraries
- Executed ML algorithms such as XGB classifier, Random Forest Tree, Logistic Regression with SMOTE oversampling, etc. reaching balanced accuracy of 89% with a specificity score of 0.97 for class of interest

Northeastern University, All-In-One Airport Management System Using Mysql | — September 2022 - December 2022

- Developed an ETL pipeline to create an RDBMS for an Airport Management system, integrating entities from different data sources with access control. Applied CTEs, window functions, and MySQL queries to gain insights
- Scaled database with Python-integrated MySQL queries and applied constraints. Visualized database using Tableau libraries such as Matplotlib, Plotly, and Seaborn for enhanced data analysis and presentation

VJTI, Breast Cancer Classifier Using Image Processing & Dl | — August 2021 - May 2022

- Created a breast cancer detection model by utilizing transfer learning with ResNet-50 on CBIS-DDSM and mini-MIAS datasets. Developedmclassification model using MLP Classifier, Utilized Scikit-learn for evaluation metrics
- Addressed class imbalances and fine-tuned hyperparameters, optimizing model for peak accuracy(93%) and effectiveness, especially in CBIS-DDSM and mini-MIAS datasets' scenarios with limited data availability

Certificates and Leadership

- Advanced SQL certified in both Kaggle and Meta, mastery in aggregate, Window Functions & BigQuery datasets
- Resident Assistant at Northeastern University Former VP of Relations and Projects, Data Science Hub at Northeastern University, Climate Justice Fellow 2023