Akshay Damodar Prabhu

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Professional Summary

Experienced data analyst adept at extracting valuable insights from complex datasets, contributing to strategic planning and operational efficiency. Proficient in utilizing advanced statistical and data visualization tools for effective communication to diverse stakeholders.

Education

Northeastern University — Boston, MA
Master of Professional Studies in Analytics - GPA 4.0 / 4 — *Sep. 2023 – April 2025*

Dayananda Sagar College of Engineering — Bangalore, India
Bachelor's of Engineering in Computer Science and Engineering - GPA 3.78 / 4 — *Aug. 2018 – Aug 2022*

Experience

GiftoLexia Solutions Private Limited — July 2020 – Oct 2021
Data Analyst Intern — *Bangalore, India*

- Pre-processed, standardized, and transformed data from the dataset into appropriate values.
- Classified the converted data into three categories (high, medium, and low) for children under assessment.
- Engineered the I-DT algorithm, incorporating the dispersion threshold identified during training.
- Achieved model training with accuracy rates consistently reaching 90% and above.

Projects

Airbnb Investments Insights for Austin Real Estate Market | *Tableau, RShiny, SQL* — Jan 2024 – Feb 2024

- Designed a dashboard to analyze Austin Airbnb data, incorporating revenue, room types, pricing, and availability rates.
- Empower investors with actionable insights to make informed real estate investment decisions for profitability.

Insurance Claim Prediction | *R, ggplot2, Hypothesis Testing, Regression Modelling* — Nov 2023 – Jan 2024

- Conducted comprehensive analysis of a Health Insurance Dataset, identifying influential factors impacting insurance claims such as age, BMI, smoking status, and exercise habits.
- Applied advanced analytical methodologies including regression analysis and regularization techniques to develop predictive models accurately estimating insurance claim amounts and predicting the likelihood of diabetes, enhancing decision-making for insurers and policymakers.
- Implemented data preprocessing techniques to handle missing values, detect and remove outliers, and transform categorical data, ensuring dataset integrity and enhancing the accuracy of predictive models..

Bank Customer Churn Prediction Analysis | *Python, Scikit-learn, Matplotlib* — Sep 2023 – Nov 2023

- Spearheaded a comprehensive churn prediction initiative, achieving a Gradient Boosting accuracy of 0.8655 and a Random Forest Classifier accuracy of 86.55%.
- Utilized advanced techniques such as K-Means clustering, Random Forest, and Gradient Boosting to analyze churn patterns and predict customer behavior.
- Managed end-to-end project execution, including data preprocessing, feature engineering, model implementation, and ongoing evaluation, to provide actionable insights for proactive customer retention strategies.

Automatic Reconstruction of 3-D models using single view images | *Python, Blender* — Jun 2021 – Jul 2022

- Innovated a contemporary approach for reconstructing 3D images from 2D facial images, incorporating the assumption of probable symmetry in objects.
- Visualized the output using Blender software.
- Conducted training in batches or epochs with a size of 64 input photos.
- Unscaled the model to 256 points to enhance visualization precision.

Technical Skills

Programming Languages and Technologies: R, Java, Python, Jupyter Notebook, C/C++, SQL, JavaScript, HTML/CSS, Apache Airflow, PySpark
Machine Learning: Supervised, Unsupervised Learning, EDA and Statistical Analysis
Libraries: OpenCV, Pandas, Scikit-learn, NumPy, Matplotlib, EasyOCR
BI Tools: Tableau Desktop, Advanced Excel, RShiny, Power-BI