Mohammed Yasir Arafath PT

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Summary

Aspiring Data Science and Machine Learning professional, gaining expertise in **data analysis, statistical modeling, and machine learning algorithms**. Proficient in **Python, SQL, Pandas, NumPy, TensorFlow, Microsoft Excel and Microsoft Power BI** with hands-on experience in building predictive models and deriving actionable insights. Developed interactive dashboards and statistical models, leveraging data to drive decisions and optimize outcomes. Recognized for strong problem-solving and communication skills.

Certifications

Certification in Data Science & Machine Learning –Illinois Tech, US Aug 2024 - Jul 2025
Data Science & Machine Learning –Entri Elevate Aug 2024 - Jul 2025

- Covered topics including data analysis, data visualization, statistical modeling, and machine learning algorithms.
- Completed capstone projects demonstrating practical applications of machine learning in various domains.

Python Programming Internship –Techno Dot Academy Jun 2024 - Jul 2024

Education

Bachelor of Computer Applications (BCA) 2021 - 2024
Sambhram Academy of Management Studies Bengaluru City University, Bangalore

Projects

Handwritten Digit Recognition (MNIST) **GitHub**
Deep Learning

- Built a Convolutional Neural Network (CNN) using TensorFlow and Keras to classify handwritten digits (0–9).
- Achieved 98% test accuracy through normalization, dropout, and model tuning.
- Implemented image preprocessing, model evaluation, and real-time prediction for uploaded handwritten images.

Customer Segmentation **GitHub**
Behavioral Clustering and Marketing Insights

- Analyzed customer purchase behavior using K-Means Clustering and PCA for dimensionality reduction.
- Segmented customers into distinct groups to identify high-value segments and personalize marketing efforts.
- Applied data preprocessing, feature scaling, and cluster validation techniques using Elbow Method and Silhouette Score.

Bank Customer Churn Prediction **GitHub**
Customer Retention and Risk Analysis

- Developed a model with 90% precision to predict customer attrition based on banking data.
- Applied feature engineering and optimized performance via Grid Search CV.

Skills

- **Techniques:** Hypothesis Testing, Recommendation Engines, Customer Segmentation Analysis, Machine Learning.
- **Tools and Frameworks:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras), MySQL, Git, Microsoft Excel.
- **Data Visualization:** Microsoft Power BI.
- **Soft Skills:** Strong communication, problem-solving, Positive Attitude.