PRATHAP B D

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CAREER SUMMARY

Proactive Machine Learning Engineer with proficiency in Python, TensorFlow and Scikit-learn, possessing practical experience in developing, optimizing and deploying models utilizing AWS and Streamlit. Dedicated to creating scalable and intelligent solutions powered by AI.

TECHNICAL SKILLS

- Programming & Python Ecosystem: Python (Pandas, NumPy, Matplotlib, Seaborn), Functions, OOPs, File & Exception Handling, List/Dict Comprehensions.
- Databases: MySQL (DDL, DML, DCL, TCL, Joins, Views, Functions), SQL Queries & Optimization.
- Data Science, ML & NLP: Data Cleaning, Preprocessing, EDA, Feature Engineering, Model Building, Supervised & Unsupervised Learning, Deep Learning, Model Evaluation & Optimization, Statistical Analysis, Hypothesis Testing, Probability, Natural Language Processing.
- Cloud & DevOps: AWS (S3, EC2, IAM, Lambda, SageMaker), CI/CD Basics, Git/GitHub, Docker.
- Tools & BI: Power BI, Advanced Excel (Pivot Tables, VLOOKUP/XLOOKUP, INDEX-MATCH, Power Query, Conditional Formatting, Interactive Dashboards).
- Soft Skills: Problem Solving, Analytical Thinking, Decision Making, Communication, Teamwork.

EXPERIENCE

Data Science Intern – AIVariant, Bengaluru   (Sep 2024 – Jun 2025)
- Using Python, Scikit-learn and TensorFlow, end-to-end machine learning models were developed and implemented to enable data-driven business decisions.
- Carried out thorough feature engineering, data preprocessing, and model validation to guarantee scalable and reliable ML solutions.
- Designed interactive dashboards using Power BI and Matplotlib, boosting clarity and communication of model insights for stakeholders.

Data Analytics Trainee – MedTour Easy (Remote)   (Mar 2025)
- Python, Pandas, Excel and Matplotlib were used to clean, convert, and analyze healthcare datasets in order to produce insights that might be put to use.
- Produced analytical reports to aid with strategic planning and operational enhancements.
- Enhanced practical skills in analytics workflows, KPI reporting and dashboard building for business intelligence use cases.

PROJECTS

1) Heart Attack Prediction Using ECG Images (Deep Learning – CNN)   [Link]
- Objective: Developed a deep learning CNN model to categorize ECG pictures into four diagnostic groups in order to diagnose heart problems early.
- Key Insights : Identified aberrant cardiac patterns to facilitate faster and more accurate clinical diagnosis.
- Key features were extracted by applying preprocessing (resizing, normalization, and augmentation), implementing early stopping and optimizing the model with TensorFlow and Keras to achieve 96% accuracy.   [Link]

2) Sales & Performance Analysis Dashboard – Zepto (Power BI, DAX)
- Objective: To assess sales, revenue, customer behavior and operational performance, an interactive Power BI dashboard was designed.
- Key Insights: Highlighted top-selling items, revenue patterns and customer purchasing behavior for company optimization.
- Extracted important features: To provide proper reporting and analysis,I built KPI cards,developed DAX measurements, cleaned data and designed sophisticated visualizations.   [Link]

3) Book Recommendation System (Collaborative Filtering – Python)
- Objective: Developed a recommendation system using collaborative filtering to forecast user preferences.
- Key Insights: Improved personalization and user engagement by offering appropriate book recommendations.
- Extracted important features: Implemented user–item similarity, applied Python,Pandas and Scikit-learn did preprocessing and reached an accuracy of 90%.

EDUCATION

Dr.Ambedkar Institute of Technology, Bengaluru
Bachelor of Engineering (BE), Electronics & Telecommunication Dec 2020 – July 2024 | CGPA: 7.71

Science Academy PU College, Davanagere XII (PUC) | Mar 2019 – Mar 2020 | Score: 85%

CERTIFICATES

Data Science Course Completion Certificate — ExcelR Institute, Bangalore (2024)
Data Science Internship Certificate — Aivarient, Bangalore (09 sep 2024 - 11 june 2025)
Foundations: Data, Data, Everywhere — Google (Coursera) (2025)
Data Analytics Trainee — MedTour Easy (Mar 2025 – Apr 2025)