AYAAN AKKALKOT

+918217636776 | ayaanakkalkot540@gmail.com | linkedin.com/in/ayaanakkalkot/ | https://github.com/Ayaanakkalkot

EDUCATION

B.E in CSE (Artificial Intelligence and Machine Learning) **12/2021 - 06/2025**
Don Bosco Institute of Technology, *Bengaluru* **CGPA - 8.83**

TECHNICAL SKILLS

Programming Languages: Python, SQL.
Tools & Platforms: Jupyter Notebook, VS Code, Git/GitHub, MySQL, Power BI, MS Excel.
Python Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, SciPy, PySpark, TensorFlow, PyTorch.
Data Science & Analytics: Time Series Analysis, Forecasting, Feature Engineering, Data Visualization
Soft Skills: Problem-Solving, Critical Thinking, Communication, Attention to Detail.

PROFESSIONAL EXPERIENCE

Machine Learning Intern | Compsoft Technologies, Bengaluru **01/2023 - 03/2023**

- Designed predictive models using Scikit-learn and TensorFlow for client solutions in web development and machine learning.
- Deployed PyTorch frameworks reducing inference latency by 22%.
- Applied automated feature engineering pipeline with FeatureTools, reducing manual processing time by 25 hours/month

PROJECTS

Walmart Weekly Sales Analysis **04/2024 - 05/2024**

- Executed **time series analysis** on Walmart's historical weekly sales data to forecast revenue and uncover trends related to **seasonality**, **holiday effects**.
- Trained and optimized **Random Forest**, **XGBoost**, and **LightGBM** models, achieving up to **94% forecast accuracy** across multiple departments and stores.
- Built interactive **Power BI dashboards** to visualize trends, highlight underperforming periods, and identify actionable insights that improved **peak-season planning**
- **Tools & Libraries:** Python, Pandas, NumPy, Scikit-learn, Power BI, SQL, XGBoost, LightGBM.

Health Guard: Multi Disease Detection **12/2023 - 01/2024**

- Developed an AI-driven system capable of **detecting multiple diseases** from medical images and patient data **achieving 89% diagnostic accuracy**.
- The goal is to assist healthcare professionals in early diagnosis, improve patient outcomes, and optimize the efficiency of medical examinations.
- Integrated patient metadata analysis using XGBoost, enhancing diagnostic precision for rare conditions.
- **Tools & Libraries:** Python, Pandas, NumPy, TensorFlow, Keras, Scikit-learn, OpenCV, XGBoost, SVM, CNN, Jupyter Notebook.

Data Analytics Customer Segmentation **06/2023 - 07/2023**

- Prepared a scalable customer segmentation model to categorize a company's customer base into distinct groups based on similar characteristics and behaviors.
- This segmentation aims to enable more **targeted marketing strategies**, personalized customer experiences, improved customer retention rates and improving **marketing ROI by 25%** .
- **Tools & Libraries:** Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, SQL, Excel, Jupyter Notebook.

Loan Application Prediction **02/2022 - 03/2022**

- Implemented a predictive model that determines the likelihood of loan approval based on applicant data.
- Identify and **analyze** the most influential **factors** that affect loan approval decisions, such as applicant **income**, **credit history**, and **loan amount**.
- Trained and evaluated models (Logistic Regression, Decision Trees, Random Forest) to predict loan approvals with 92% accuracy.
- **Tools & Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook.

CERTIFICATIONS

- Python Zero to Mastery (Udemy) | ***2022***.
- The Complete SQL Bootcamp: From Zero to Hero (Udemy) | ***2023***.
- Data Analyst Bootcamp (Udemy) | ***2024***.
- Power BI - Business Intelligence for Beginners to Advanced (Udemy) | ***2024.***

INTERESTS

Fishing**,** Cricket**,** Fitness enthusiast, Cooking.