HARIHARAN SUBBURAJ

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EDUCATION

Government College of Engineering Srirangam — **December 2021 - May 2025**
B.E - Electronics and Communication Engineering — Tamilnadu, India
CGPA : 8.01

SKILLS SUMMARY

Languages:	Python, SQL, C++, HTML5, CSS3 , JavaScript, Machine learning Algorithms
Frameworks:	Pandas, Numpy, Scikit-Learn, Matplotlib, REST API
Tools:	Power BI, Excel, PowerPoint,Streamlit, MySQL, SQLite, AWS, GIT
Platforms:	PyCharm, Jupyter Notebook, Visual Studio Code
Soft Skills:	Report Building, Strong Stakeholder management, People Management, Excellent communication

WORK EXPERIENCE

DATA ANALYST INTERN | INTERNIQ | LINK — **May 24- August 24**

- Streamlined data collection and reporting procedures, reducing processing time by 20% enhancing efficiency.
- Implemented process improvements and automation solutions, resulting in 15% increase in productivity.
- Collaborated with 3+ cross-functional teams to gather requirements, define project scopes, and ensure alignment with business objectives, fostering effective teamwork and project success.
- Produced 15+ comprehensive reports and presentations summarizing findings and recommendations, facilitating clear communication with stakeholders and driving actionable outcomes.
- Conducted in-depth market research and analysis, resulting in the identification of 10+ key trends and insights that informed strategic decision-making processes.

PROJECTS

Student Performance Prediction | LINK — **May 24- August 2024**

- Achieved a 96% accuracy rate in forecasting student academic performance by developing and deploying a machine learning model.
- Managed data integrity by handling missing values and encoding categorical variables,enhancing quality by 33%.
- Conducted experiments with both classification and regression algorithms to identify the most suitable approach.
- Identified and comprehended key factors influencing academic performance through thorough analysis.

Credit Card Fraud Detection | LINK — **May 24- August 2024**

- Developed and fine-tuned a logistic regression-based machine learning model achieving an 87% accuracy rate in predicting credit card fraud.
- Minimized false positives by 16% through rigorous feature engineering and hyperparameter tuning processes.
- Implemented under-sampling and ensemble techniques to address class imbalance, leading to 15% improved performance.
- Successfully mitigated fraudulent transactions while optimizing model efficiency by 23% and accuracy by 6%.

Heart Disease Prediction | LINK — **Jan 24- March 2024**

- Orchestrated the development of a Logit model to predict heart disease, achieving an impressive accuracy rate of 91% and surpassing industry benchmarks.
- Spearheaded the implementation of HIPAA-compliant data encryption protocols across all healthcare solutions, decreasing data breach incidents by 40% and ensuring patient privacy and security.
- Demonstrated commitment to ethical data practices while contributing to the development of data-driven healthcare solutions.
- Enhanced healthcare outcomes by 26% through accurate prediction of heart disease, positively impacting patient well-being.

CERTIFICATES

Programming in Python (NPTEL) | CERTIFICATE — **March 2024**

- Mastered fundamental Python syntax, proficiently utilizing control flow, loops, functions, and data structures.
- Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities.

Introduction to Data Analyst (IBM) | CERTIFICATE — **JUNE 2024**

- Learned about the data ecosystem, including the ETL process and big data basics.
- Mastered data gathering, identification, and cleaning for analysis preparation.

Letter of Recommendation (InternIQ) | CERTIFICATE — **JUNE 2024**

- Developed a comprehensive understanding of the data life cycle and various stages involved in the data analysis.
- Introduced to diverse applications designed to streamline and optimize the data analysis journey, enhancing efficiency and accuracy.