

Subhash Pavan Chakravarthy Somarouthu

Portfolio: [Subhash Pavan](#)

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SUMMARY

Experienced Data Analyst with over 2 years of expertise in deploying and managing complex datasets. Proficient in leveraging Python and SQL for data analysis, enhancing marketing strategies with a 20% increase in efficiency. Accomplished in designing interactive dashboards and driving strategic decisions. Capable of using advanced analytical methods to deliver impactful business solutions.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL
- **Machine Learning & NLP:** scikit-learn, TensorFlow, NLTK
- **Data Analysis and Visualization Tools:** Power BI, Advanced Excel, Tableau, Matplotlib, Seaborn
- **Databases:** MySQL, Microsoft SQL Server
- **Cloud Platforms:** GCP (Beginner)
- **Web & App Development:** Streamlit, Flask

PROFESSIONAL EXPERIENCE

Quinte Financial Technologies

[Data Analyst](#)

March 2024 – April 2024

- Leveraged SQL to extract and analyze data from complex databases, enhancing data-driven decision-making processes and resulting improvement in report accuracy for business stakeholders.
- Designed interactive dashboards using Tableau, streamlining data visualization and reporting workflows, which reduced report generation time by 30% and increased accessibility to critical insights.
- Collaborated with cross-functional teams to gather and translate business requirements into actionable data solutions, contributing to increase in project delivery efficiency and stakeholder satisfaction.
- Conducted thorough data validation and quality assurance checks, ensuring the reliability of analytical outputs and driving a 25% reduction in data discrepancies and errors.

Almabetter

[Data Science Intern](#)

February 2023 – January 2024

- Extracted and analyzed data from company databases, leveraging Python to enhance product development and marketing strategies, resulting in an increase in targeted marketing efficiency.
- Executed and assessed statistical analyses and predictive models, uncovering key trends and patterns that informed strategic decisions and contributed to a 15% boost in overall business performance.
- Mentored 50+ students, addressing complex queries and enhancing understanding of data science concepts, leading to improvement in student satisfaction ratings.
- Led A/B testing initiatives on website UI/UX designs, analyzing results to determine optimal design strategies, which increased student engagement by 25% and course purchases by 18%.

Accenture

[Application Development Associate](#)

October 2021 – February 2023

- Spearheaded the deployment of three internal projects, adeptly managing large datasets using Excel and optimizing data retrieval processes through SQL, leading to improvement in data accuracy and efficiency.
- Enhanced ticket closure rates by 15% starting Q2 2022 by leveraging Jira for streamlined issue tracking and resolution, boosting team productivity and client satisfaction.
- Coordinated with cross-functional teams and client representatives to deliver thorough end-to-end testing support, ensuring robust performance and quality of new services, including the 5G launch by Virgin Media O2.
- Generated comprehensive daily activity reports to support the seamless integration of Telefonica and Virgin Media O2, contributing to improved operational efficiency and effective communication across the telecommunication project.

PROJECTS

Customer Churn Prediction

November 2024

- Implemented **supervised** machine learning algorithms, including **Support Vector Machine** and **Logistic Regression**, achieving 82% classification accuracy in predicting customer churn based on transaction and demographic features.
- Applied Synthetic Minority Over-Sampling Technique (**SMOTE**) to address class imbalance, resulting increase in model recall and a 25% reduction in false negatives, enhancing model robustness.
- Conducted large **hyperparameter tuning**, optimizing model performance and increasing precision by 20% while minimizing overfitting on the training dataset.
- Analysed and evaluated customer features, identifying key predictors for churn with improvement in model interpretability, leading to more actionable insights for targeted interventions.

Loan Approval Analysis and Prediction

July 2024

- Performed in-depth data cleaning, **EDA and SQL-based analysis** to uncover loan approval patterns, demographic segments, and risk indicators from structured loan application data.
- Built and fine-tuned **Logistic Regression and Random Forest models**, with Random Forest achieving **0.983 recall** and the highest F1 score, enabling better identification of approved applicants.
- Designed **interactive PowerBI dashboard** to visualize key metrics like approval rates, income distribution, and applicant profiles, improving stakeholder decision-making.
- Identified critical features influencing loan decisions—such as **credit history, property area, and co-applicant income**—which aligned with initial EDA insights.
- Highlighted inconsistencies and potential fraud indicators in loan decisions, supporting risk management and process improvement initiatives.

EDUCATION

Post Graduation in Data Science
[Loyalist College, Toronto](#)

April 2024 – December 2025

Bachelor of Technology in Information Technology
[SRKR Engineering College, India](#)

June 2017 – July 2021

CERTIFICATIONS & ACHIEVEMENTS

- IBM Data Science - [Coursera](#)
- Achieved Full Stack Data Science Certification – AlmaBetter.
- Earned 5-star Gold Badge in SQL and Python – HackerRank.