

VADLAMUDI ARUN KUMAR

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PROFESSIONAL SUMMARY

Data Science and Machine Learning Aspirant skilled in **Python, SQL, Scikit-learn, TensorFlow, Power BI, and Tableau**, with hands-on experience in **EDA, feature engineering, predictive modeling, and ML deployment**. Strong analytical mindset with a passion for transforming data into **actionable insights** through **real-world projects** and business-driven dashboards.

EDUCATION

Bachelor of Science (B.Sc) in Mathematics, Statistics, Computer Science (MSCS)

Nov 2021 – Jun 2024

Government College Autonomous, Rajahmundry | CGPA: 9.48

TECHNICAL SKILLS

- Programming Languages:** Python, SQL
- Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau, Excel
- Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, PyTorch, Streamlit
- Core Concepts:** Exploratory Data Analysis (EDA), Feature Engineering, Supervised & Unsupervised Learning
- Soft Skills:** Communication, Project Management, Stakeholder Engagement

PROJECTS

Car Fuel Efficiency Prediction – Automotive | Python, Linear Regression | [Project Presentation](#) | Nov 2025

- Built an interactive web application to predict **Miles Per Gallon (MPG)** for **1970–1982** classic cars using a trained **Linear Regression model** on the UCI Auto MPG dataset.
- Engineered **7 key features** including cylinders, displacement (cu in), horsepower, weight, acceleration, model year, and country of origin (USA/Europe/Japan) — significantly improving prediction accuracy.
- R² Score: **0.922 (92.2%)**, Mean Absolute Error: **1.85 mpg**, Root Mean Squared Error: **2.41 mpg**

Customer Bank Churn – Banking | Python, ML, Random Forest | [Project Presentation](#) | Dec 2025

- Built a **Random Forest**-based customer **churn prediction model** achieving **85.5% accuracy, 63% precision, 63% recall, and 0.63 F1-score** on imbalanced banking data through feature engineering.
- Developed an interactive **Streamlit web application** with **professional UI** with custom dark theme styling and deployed the full-stack **ML solution, demonstrating** end-to-end skills from data preprocessing.

INTERNSHIP EXPERIENCE

Data Analyst Intern

AtliQ Technologies - Shield Insurance – Virtual | [Project Presentation](#) | Sep 2024

- Built dashboards to track daily revenue, customer acquisition, and policy trends using **6 months** of business data.
- Delivered **visualized performance reports** for key stakeholders using KPIs and rainbow charts..
- Identified peak growth in **March 2023** (7.2K new customers), with **₹264M** revenue; Delhi led with **₹402M**.

Data Analytics with Tableau

SmartInternz – Electric Vehicle Charging Range | [Project Presentation](#) | Jan 2024 – May 2024

- Assessed global EV brand efficiency and visualized insights using **Tableau dashboards**.
- Built **Tableau dashboards** with **waterfall, charts, maps, and tree views** for visual insight delivery.
- Highlighted Tesla as the most efficient brand with a 473 km charge range.

CERTIFICATIONS

- Mention tools covered in the certification under the bootcamp from **Codebasics - Certification**
- Data Analytics with Tableau certification under the Internship from **SmartInternz - Certification**