

GOKUL RAMESH

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ABOUT GOKUL RAMESH:

An Innovative data science graduate student with a strong foundation in data analysis, machine learning, and software development. Adept at delivering scalable, user-centric solutions through advanced analytical techniques and robust programming skills. With professional experience in front-end development and data - driven applications at Infosys, I have successfully led impactful projects such as a Pre - Order web application for Toyota, improving operational efficiency by 95%. My expertise spans Python, SQL, AWS, and cutting - edge visualization tools, making me a dynamic problem - solver and a valuable asset in data - driven environments.

To know more about his professional experience and projects, check his portfolio:

<https://gokulramesh22.netlify.app/>

EDUCATION

University of Connecticut, Storrs, Connecticut

- Master of Science (M.S) in Data Science (Aug 2024 – Dec 2025)

Anna University, Chennai, India

- Bachelor of Engineering (B.E) in Mechanical Engineering (Aug 2017 – Apr 2021)

SKILLS

Technical Skills: Python, R, SQL, Javascript, Microsoft Suite.

Databases Cloud Platforms: Postgres, MySQL, AWS.

Libraries & Frameworks: Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, Streamlit, React, Angular, HTML, CSS.

Gen AI: LLMs, RAG, FAISS, Hugging Face, LangChain, Prompt Engineering.

Statistical Methods: Descriptive & Predictive Analytics, Machine Learning Algorithms, Data Visualization, Hypothesis Testing, Hyperparameter Tuning.

IDEs and Tools: RStudio, Jupyter Lab, Visual Studio Code, Jenkins, GitHub, Confluence.

Techniques: Agile (Scrum and Kanban), JIRA, CI/CD.

Certificates: Infosys Certified Front End Web Developer, Infosys Certified AWS Cloud Developer Associate

PROFESSIONAL EXPERIENCE

Front-End Web Developer | Infosys, Chennai, India (Mar 2023 – Jul 2024)

- Developed a Pre-Order web application for Toyota's US client, utilized by over 50 dealerships nationwide.
- Designed custom filtering and screen customization options, improving efficiency by 95%.
- Created a VIP checkbox functionality to prioritize high-value orders, boosting workflow efficiency by 20%.
- Built an event history tab for order tracking, reducing order-tracking time by 25%.

Systems Engineer | Infosys, Chennai, India (Jan 2022 – Feb 2023)

- Developed a Dealer Onboarding Tool with enhanced screen response time by 50%.
- Enabled PDF and Excel data export and added a bulk order feature, reducing input time by 80%.
- Integrated API Gateway and AWS Lambda for data handling, improving scalability and reliability.
- Monitored CloudWatch logs for performance optimization and troubleshooting.

Analyst Intern | Tamilvanan Industries, Tamil Nadu, India (May 2019 – Aug 2019)

- Used Root Cause Analysis to improve compliance and reduce defects, enhancing product quality.
- Implemented predictive maintenance, reducing downtime by 90% and improving productivity.

ACADEMIC PROJECTS

Credit Card Fraud Detection with Machine Learning

- Built a fraud detection pipeline using Isolation Forest with 99% accuracy for anomaly detection.
- Preprocessed data with StandardScaler and median imputation for consistency.
- Implemented Naive Bayes, Decision Tree, Random Forest, Gradient Boosting, and XGBoost models, improving performance by 20%.
- Achieved 75% F1-Score and 74% Recall with optimized XGBoost and visualized feature importance for interpretability.

Predictive Modeling of Corporate Takeover Dynamics

- Standardized features (PREM, ASSET, INST) and improved data quality by 98%.
- Applied Multiple Linear Regression with stepwise selection, optimizing predictor selection by 20%.
- Implemented GLMs with logit functions, achieving 85% classification accuracy.
- Leveraged Random Forest and XGBoost, boosting performance by 25% through hyperparameter tuning.

- Identified key predictors (PREM, ASSET, LEGAL, THIRD) and reduced false negatives by 22%.

Personal Information:

- Currently lives in Hartford, Connecticut.
- He comes from Ambattur, Tamil Nadu, India.
- Loves to play Cricket, Basketball, Football.
- Big fan of Messi and Barcelona.
- Favourite Color: Black
- Favourite Music Director: Yuvan
- In relationship with Swetha M, Senior Test Engineer in Infosys.
- Languages Known: English, Tamil.
- Favourite Series: Breaking Bad, Peaky Blinders.
- Favourite Food: Biryani
- Age: 24

AWARDS & ACHIEVEMENTS:

Rise Awards | Infosys, India - Best Team

Convergence Awards | Infosys, India - BTN Champion.

EXPERIENCE SUMMARY :

Gokul has around 3 years of professional experience, including roles as a Front-End Web Developer, Systems Engineer, and Analyst Intern, showcasing expertise in building scalable applications, enhancing operational efficiency, and implementing data-driven solutions.