

# SHREERAM VENKATESH

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**PORTFOLIO** <https://shreeramv98.github.io/>

## EDUCATION

- **Masters in Data Science**- Illinois Institute of Technology, Chicago [Aug 2022 - May 2024]
- **Bachelors of Technology, Electronics and Communication Engineering**- SRM IST, Chennai, India [June 2015-May 2019]

## TECHNICAL SKILLS

- **Programming Language** - SQL, Python, C++/C Programming, R, Embedded C and Java
- **Data Visualization** - Power Bi, Tableau, Dax Query
- **Machine Learning**- Feature Engineering, Feature Selection, Model Validation, Model Development, Model Evaluation, Exploratory Data Analysis (EDA)
- **Cloud Computing**- Microsoft Azure, AWS, Hadoop, Big Data, Data Engineering, Data Lake, Databricks
- Microsoft Excel, Microsoft Word, PowerPoint
- Data Cleaning, Statistical Data Analysis
- **Software Platforms**- MySQL, PostgreSQL, MATLAB, Jupyter Notebook, Eclipse, GitHub, VS Code
- **Frameworks & Libraries**: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Apache Spark
- AWS Redshift, AWS Sagemaker, AWS lambda

## PROFESSIONAL EXPERIENCE

- **Data Science Intern- Practicum, Labelmaster, Chicago, IL** **[Jan 2024 - May 2024]**
  - Spearheaded the team of 6 members and the development of a real time ML price guidance system with an accuracy of **95%** at Labelmaster, harnessing client data to drive revenue maximization for a vast database
  - Employed advanced **Machine Learning modelling** and **statistical hypothesis techniques** to craft personalized price guidance resulting in enhanced customer engagement and revenue generation
  - Collaborated cross-functionally, validated models, and seamlessly integrated the system, culminating in a notable **12%** increase in revenue
  - Communicated actionable insights through intuitive **Power BI dashboard** and created a user-friendly application with **Streamlit**, facilitating informed decision-making processes across the organization
- **Graduate Teaching Assistant, Illinois Institute of Technology, Chicago, IL** **[Aug 2023 - May 2024]**
- **Software Data Analytics Engineer, KPIT Technology Limited, Bangalore, India** **[Feb 2020 - May 2022]**
  - Part of a 6-member team, used **AWS EMR, S3 and SQL** for data analytics, optimizing synchronization protocols, and enhancing system performance. Skills Used: **AWS, S3, EMR SQL, Python, R, Excel, AUTOSAR**
  - Contributed to AUTOSAR Automotive Diagnostic Projects, Improving DOIP and DCM protocols through data science.
  - Proficient in **SQL, AWS, and Python**, achieved **50%** enhancement in project delivery efficiency by implementing AUTOSAR Ethernet Time Synchronization across multiple projects and achieved timely achievement of deliverables
- **Intern, KPIT Technology Limited, Bangalore, India** **[Mar 2019 - Apr 2019]**
  - Mastered the fundamentals of Automotive Electronics, Safety Standards, Microprocessors and Microcontrollers through an intensive training program, achieving a **100%** understanding of industry best practices and technical principles
  - Successfully navigated through diverse projects, delivering tasks promptly. Participated in a virtual internship training program from July 2019 to January 2020, and project assignments were determined by performance, skills, and outcomes

## PROJECTS

- **E-Commerce-Market Analysis and Insights** - Led E-commerce analysis in R, employing EDA, K- means, Random Forest, PCA, and hypothesis testing to unveil user behaviour, popular products, and predict trends. Developed predictive models for actionable insights with R-squared value of **0.945** for RF model and **0.847** for RF-CV model. Skills- **R, Machine Learning, Power BI**
- **Optimizing Biomass Predictions** - Implemented advanced regression methods, including stepwise and ridge regression, for optimizing biomass prediction, showcased expertise in mitigating multicollinearity challenges, achieving an impressive R-squared value of 0.867 and enhancing model interpretability. Skills: **Machine Learning, Python, Supervised and Unsupervised Learning**
- **Netflix Movie Recommendation System** - Strategized an advanced movie recommendation system employing content-based and collaborative filtering, along with matrix factorization. Analysed movie features and user interactions to offer personalized suggestions, boosting user engagement. Skills: **Machine Learning, Python, Recommendation Systems**
- **Sales Analytics for ATLIQ Software Company using Power BI** - Deployed a database given in a course offered by Codebasics, and designed a Power Bi dashboard to get some Business Insights of Atliq Technologies and Improved the sales and performance of the Company by **60%** Efficiency. Skills: **Power Bi, SQL, Data Cleaning, ETL, Excel, Data Modelling, Data Optimization, Python and DAX Query**
- **Data Warehousing on Telecom Churn Rate Data Using Aws Redshift**- Utilized an open-source data for analyzing telecom customer churn rate, implemented AWS redshift, and used Machine learning Algorithms to deliver insights and visualized the data to predict telecom churn rate with an accuracy score of **85%**. Skills: **AWS Redshift, SQL, Machine Learning, EDA, XGBoost, S3, EMR and Data Visualization**

## EXTRACURRICULAR ACTIVITIES

- **Graduate Student Assistant, Chicago Public School, Chicago, IL** [Oct 2023 – May 2024]

## COURSEWORK

- Machine Learning, Big Data, Database Organization, Applied Statistics, Statistical Learning, Data Preparation and Analysis, Introduction to Algorithms, Monte Carlo Methods in Finance, Project Management and Data Science Practicum