

SHREERAM VENKATESH

svenkateshiitc@gmail.com | +1 401-541-1455 | <https://www.linkedin.com/in/shreeram-venkatesh-56470015b/> | <https://github.com/shreeramv98>

EDUCATION -

- **Masters in Data Science-** M.A.S in Data Science at Illinois Institute of Technology, Chicago (Aug 2022 - Present)

TECHNICAL SKILLS -

- **Programming Language** - SQL, Python, C++/C Programming, R Programming, Embedded C and Java
- **Data Visualization** - Power Bi, Tableau
- **Machine Learning (Supervised and Unsupervised Learning)**- Feature Engineering, Feature Selection, Model Validation, Model Development, Model Evaluation, Exploratory Data Analysis (EDA)
- **Big Data** - Hadoop, AWS, Big Data
- **Operating System** - Windows, Linux, Ubuntu
- **Microsoft** - Excel, Word, PowerPoint presentation
- Data Cleaning, Statistical Data Analysis
- FileMaker, Google Classroom and Dax Query
- **Software Platforms-** MySQL, PostgreSQL, MATLAB, Simulink, Jupyter Notebook, Eclipse, GitHub

PROFESSIONAL EXPERIENCE -

- **Graduate Student Assistant**, Chicago Public School, Chicago, IL **[Oct 2023 – Present]**
 - Administered standardized assessments for CPS selective enrollment program, performed meticulous data synchronization, entry, and validation using Microsoft Excel, ensuring 100% accuracy and completeness of data. Skills: CRM, FileMaker, Data Entry, Microsoft Excel
- **Graduate Teaching Assistant**, Illinois Institute of Technology, Chicago, IL **[Aug 2023 – Present]**
 - TA for Database Organization (CS 425) course, helping professors in the classroom, leading discussion sections, meeting with students during office hours, grading homework/projects, proctoring exams, and giving feedback on homework
- **Software Engineer**, KPIT Technology Limited, Bangalore, India **[Feb 2020 - May 2022]**
 - Worked in a Team of 9 members, leveraged data analytics and advanced statistical analysis tools (R and Python) to optimize synchronization protocols, ultimately enhancing system performance. Collaborated on Automotive Diagnostic projects, enhancing DOIP and DCM processes using data science methodologies. Skills: R, Microsoft Excel, Power BI
 - Achieved a remarkable 50% improvement in project delivery efficiency by leading the successful implementation, validation, and verification of AUTOSAR Ethernet Time Synchronization in various customer projects. Skills: Python
- **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, Random Forest, PCA, and hypothesis testing to unveil user behaviour, identify 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, EDA, PCA, Random Forest, Feature Engineering, Feature Selection, RFE, Cross-validation and Hyperparameter tuning
- Optimizing Biomass Predictions by using Regression Strategies and Mitigating Multicollinearity present in Environmental Data
 - 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, PCR, SSE, OLS, Ridge, Stepwise, Subset Selection
- Credit Card Fraud Detection using different Machine Learning Models
 - Developed a fraud detection system for credit cards, using machine learning and real-time monitoring to prevent unauthorized transactions. Skills: R, Logistic Regression, Gradient Boosting, Decision Tree, Feature Engineering, Accuracy, Precision, Recall, ROC-AUC
- Designed a Power BI Dashboard for ATLIQ Software Company Ltd to derive business insights from provided data
 - 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 telecom customer churn rate from Kaggle, implemented AWS redshift on it 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
- Library Management System
 - Created a JDBC and PostgreSQL-based web app, showing a 100 % effective data presentation and data management

CERTIFICATIONS -

- Supervised Machine Learning - Regression and Classification, DeepLearning.AI and Stanford
- Data Visualization with Tableau - UC, Davis
- Programming for Everybody, Python Data Structures- University of Michigan