

# SHREERAM VENKATESH

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## EDUCATION -

- **Masters in Data Science**- M.A.S in Data Science at Illinois Institute of Technology, Chicago (Fall 2022 - Spring 2024)

## 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
- **Big Data** - Hadoop, AWS, Big Data
- **Operating System** - Windows, Linux, Ubuntu
- **Microsoft** - Excel, Word, PowerPoint presentation
- Data Visualization and Data Cleaning
- FileMaker, Google Classroom and Dax Query
- **Software Platforms**- PostgreSQL, MATLAB, Simulink, Jupiter Notebook, Eclipse, GitHub

## PROFESSIONAL EXPERIENCE -

- **Graduate Teaching Assistant**, Illinois Institute of Technology, Chicago, IL [August 2023 – December 2023]
  - 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
- **Graduate Student Assistant**, Chicago Public School, Chicago, IL [October 2023 - March 2024]
  - Administered standardized assessments to determine admissions into CPS selective enrollment elementary program and perform data synchronization, data entry, data validation using Microsoft Excel to ensure data accuracy and completeness. Skills: CRM, FileMaker, Data Entry, Microsoft Excel
- **Software Engineer**, KPIT Technology Limited, Bangalore, India [February 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 [March 2019 - April 2019]
  - Learnt the fundamentals in Automotive Electronics, Automotive Safety Standards, Microprocessors and Microcontrollers
  - 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. Skills: R, EDA, PCA, Random Forest, Feature Engineering, Feature Selection, RFE, Cross-validation and Hyperparameter tuning
- Developing a Power BI Dashboard to analyse 2021-22 Football (Soccer) season stats and gain insights
  - Utilized an open-source dataset from Kaggle, created a dashboard that analyses the stats of football players, football teams and obtained insights on players Shots taken, Defender, Goals, XG/XGA, Aerial Duel, Passes Analysis. Skills: Power BI
- Credit Card Fraud Detection using different Machine Learning Models
  - Built a credit card fraud detection system capable of detecting and preventing fraudulent 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
  - Built a Web-based application that uses JDBC and PostgreSQL software, presents a database system w.r.t data inserted

## CERTIFICATIONS -

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

## PUBLICATIONS -

- Designed a Project and Published a paper at International Journal on Wireless Personal Communications in 2021 titled "Design and Analysis of Co-operative Acoustic and Optical Hybrid Communication for Underwater Communication"