

# SHREERAM VENKATESH

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## EDUCATION

**Masters in Data Science**- Illinois Institute of Technology, Chicago, IL, USA [Aug 2022 - May 2024]

*Awarded prestigious Graduate Pathway Scholarship*

**Bachelors of Engineering, Electronics and Communication Engineering**- SRM IST, Chennai, India [Jun 2015 - May 2019]

## TECHNICAL SKILLS

**Programming Language** - SQL, Python, C++/C Programming, R, Embedded C, Bash, HTML, DAX, Java, MongoDB, T-SQL

**Cloud Platform**- AWS (S3, Redshift, Sagemaker, Lambda), Azure SQL, Azure Synapse Analytics, Data Lake, Databricks, Hadoop

**Frameworks & Libraries**- NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, OpenCV, PySpark, Keras, PyTorch, NLTK

**Tools**- Power BI, Tableau, Microsoft Excel, SAP, SaaS, Jira, MySQL, PostgreSQL, MATLAB, GitHub, Streamlit

## PROFESSIONAL EXPERIENCE

- **Data Science Intern, Labelmaster, Chicago, IL, USA** [Jan 2024 - May 2024]
  - Spearheaded a team of 6 to achieve **95%** accuracy in a real-time **Machine Learning (ML) price guidance system**, leveraging **7** years of client data for revenue maximization
  - Engineered a sophisticated **ML algorithm (clustering techniques, regression algorithms)** and **statistical hypothesis techniques**, driving increased customer engagement and boosting annual revenue by **\$4.7 million**
  - Enabled informed decision-making through insights communicated via a **Power BI** dashboard and user-friendly **Streamlit** application, leading to a **25%** enhanced overall productivity across departments
  - Collaborated cross-functionally to validate models and integrate the system, resulting in a **12%** revenue increase
- **Graduate Teaching Assistant, Illinois Institute of Technology, Chicago, IL, USA** [Aug 2023 - May 2024]
  - Facilitated classroom discussions, evaluated student work, and delivered feedback. Graded assignments and projects, offering insights on SQL, MySQL, PostgreSQL, DBMS, OLAP, Excel, resulting in a **40%** increase in student engagement
- **Data Analytics Engineer, KPIT Technology Limited, Bangalore, India** [Feb 2020 - May 2022]
  - Transformed data analytics by employing **AWS EMR, AWS S3, and SQL**, optimizing data synchronization protocols and enhancing system performance by **80%**. (**Cloud, AWS, S3, EMR, SQL, Python, R, Excel, AUTOSAR**)
  - Enhanced diagnostic accuracy by **90%** by analyzing AUTOSAR data and crafting predictive models, utilized Power BI for insightful visualization, improving decision-making and timely deliverables
  - Automated AUTOSAR Ethernet Time Synchronization using **Python** and **R**, resulting in a **60%** increase in project delivery efficiency and a **15%** reduction in operational costs
- **Intern, KPIT Technology Limited, Bangalore, India** [Mar 2019 - Jan 2020]
  - Mastered Automotive Electronics, Safety Standards, Microprocessors, and Microcontrollers through intensive training, emphasizing data analysis
  - Led diverse projects and met deadlines during a **6-month** remote internship, integrating key data science algorithms (**regression, classification, clustering**) into automotive electronics

## PROJECTS

**E-Commerce-Market Analysis** - Examined e-commerce data with **R**, employing **EDA, K-means, Random Forest (RF), PCA**, and **hypothesis testing**. Attained R-squared values of **0.945** and **0.847** for RF and RF-CV predictive models, respectively

**Sentimental Analysis of COVID-19 tweets** - Utilized **NLP** on COVID-19 tweets, trained **ML** models (**XGBoost, Random Forest, SVM, Regression, Naive Bayes**). Accuracy of **86%** is achieved with **Stochastic Gradient Descent**, when refining pandemic sentiment analysis

**Netflix Movie Recommendation System** - Crafted a Netflix Recommendation System using content-based and collaborative filtering methods, alongside matrix factorization, leading to a **60%** increase in user satisfaction metrics and higher retention rates

**Sales Analytics for ATLIQ Software Company** - Deployed the ATLIQ database from Codebasics and Designed a Power BI dashboard, enhancing sales and performance by **90%**. Incorporated **Power Bi, SQL, Python, DAX, ETL, Excel, Data Wrangling**

**Telecom Churn Rate Data Warehousing with AWS Redshift**- Implemented **AWS Redshift** and Machine Learning (ML) algorithms to predict telecom churn rate with an accuracy score of **85%**. Applied **AWS Redshift, SQL, ML, EDA, XGBoost**

## VOLUNTARY EXPERIENCE

**Graduate Student Assistant, Chicago Public School, Chicago, IL**

[Oct 2023 - May 2024]

- Administered standardized assessments for CPS elementary program admissions, synchronized, validated, and entered data using **MS Excel, CRM, FileMaker** to ensure accuracy

## 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

## CERTIFICATIONS

- Machine Learning, Data Visualization with Tableau, Python Data Structures- Coursera, Mastering Excel (LinkedIn)