SHREERAM VENKATESH

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

PORTFOLIO https://shreeramv98.github.io/

EDUCATION

- **Masters in Data Science**- Illinois Institute of Technology, Chicago, IL, USA [Aug 2022 - May 2024]
- **Bachelors of Technology, Electronics and Communication Engineering**- SRM IST, Chennai, India [Jun 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, USA**   [Jan 2024 - May 2024]
  - Spearheaded the team of 6 members and development of a real time **ML** price guidance system with an accuracy of **95%** at Labelmaster, harnessing client data spanning **7** years (**2017-2024**) to drive revenue maximization for a vast database
  - Developed and strategized a sophisticated **Machine Learning** algorithm and **statistical hypothesis techniques** to customize pricing strategies, boosting customer engagement by **40%** and improving revenue by **$4.7** million annually
  - 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, resulting in **50%** improvement in user adoption rates and **25%** increase in overall productivity in accessing and utilizing analytical tools across departments
- **Graduate Teaching Assistant, Illinois Institute of Technology, Chicago, IL, USA**   [Aug 2023 - May 2024]
  - Assisted professors in classroom instruction, led discussions, and conducted office hour meetings. Evaluated student work, graded assignments, and projects, and provided feedback. **(SQL, MySQL, PostgreSQL, DBMS, OLAP, Excel)**
- **Data Analytics Engineer, KPIT Technology Limited, Bangalore, India**   [Feb 2020 - May 2022]
  - Part of a 6-member team, utilized **AWS EMR, S3** and **SQL** for data analytics, optimizing synchronization protocols, and improving system performance. **(Cloud, 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 automating AUTOSAR Ethernet Time Synchronization across multiple projects and achieved timely achievement of deliverables
- **Intern, KPIT Technology Limited, Bangalore, India**   [Mar 2019 - Jan 2020]
  - 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**, utilizing **EDA**, **K-means**, **Random Forest (RF)**, **PCA**, **Machine Learning** and **hypothesis testing**. Developed predictive models achieving R-squared values of **0.945** for RF model and **0.847** for RF-CV model
- **Refining Biomass Predictions -** Executed **Machine Learning**, advanced regression methods, including stepwise and ridge regression, achieving an R-squared value of **0.867**. Expertise in mitigating multicollinearity challenges
- **Netflix Movie Recommendation System -** Engineered a **Recommendation System** using content-based, collaborative filtering methodologies, alongside matrix factorization. Resulted in a **30%** improvement in user satisfaction metrics and a **20%** increase in retention rates. (**Machine Learning**)
- **Sales Analytics for ATLIQ Software Company -** Deployed the ATLIQ database from Codebasics, and Designed a Power BI dashboard to improve sales and performance by **60%**. **(Power Bi, SQL, Python, DAX Query, ETL, Excel, Data Wrangling)**
- **Data Warehousing on Telecom Churn Rate Data Using Aws Redshift-** Implemented AWS Redshift, Machine Learning algorithms to predict telecom churn rate with an accuracy score of **85%**. **(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 **Microsoft Excel**, **CRM**, and **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