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
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, MS 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
Refined Biomass Predictions - Executed **Machine Learning**, utilizing advanced regression methods, including step-wise and ridge regression, to refine Biomass predictions, achieving an R-squared value of **0.867**. Mitigated multicollinearity challenges
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)