

Hemanth kumar Sharab

hemanthsharab2001@gmail.com | +1 (816) 898-1366 | hemanthsharab.com | linkedin.com/in/hemanthsharab

Education

University of Central Missouri, *Master's in Computer Science*; GPA: 4.0/4.0
Vel Tech University, *Bachelor's in Computer Science*; GPA: 4.0/4.0

Jan 2024 - Dec 2025
Jun 2018 - May 2022

Experience

Software Engineer - Data Engineer , Harman India	Mar 2023 – Dec 2023
<ul style="list-style-type: none">Developed scalable ETL pipelines with Apache Airflow, integrating 25+ data sources and reducing data lag from 10 to 2.5 minutes.Designed a PostgreSQL data warehouse for 5 factories, optimizing storage and retrieval of 1M+ data points for faster access.Conducted data migration testing, reducing processing time by 70% and improving pipeline reliability.Automated hourly report delivery for 1000+ team members using Python scripts deployed on Kubernetes.Built an API-driven UI to track recurring quality defects, improving defect resolution and product quality across 6 lines.Collaborated with teams to enable real-time visualization of shop-level metrics, enhancing decision-making processes.	
Associate Engineer - Data Engineer , Harman India	Oct 2021 – Feb 2023
<ul style="list-style-type: none">Created interactive visual analytics dashboards in Tableau, improving production line efficiency to 85% and aiding in actionable decision-making.Computed an Impact Score using recurring indices, which identified key factors affecting the ability to meet shop-level targets.Leveraged NLTK and SpaCy to develop a text automation model for summarizing comments extracted from 15,000 unstructured data points, enhancing insight extraction efficiency.Processed yearly raw data from 12+ diverse sources spanning 4 factories and reduced 1800 features to lower dimensions using PCA techniques, improving model performance.	

Technical Skills

Programming: Python (NumPy, Pandas, Matplotlib, Scikit-learn, SciPy, Seaborn), Networking(TCP/UDP socket programming, websockets), SQL, C++, JavaScript, HTML/CSS.

Data Science: Data Analysis, Modeling, Machine Learning, Deep Learning, Generative AI, MLOps, Time Series Analysis.

Databases: MySQL, MS SQL Server, MongoDB, AWS Redshift, Snowflake, Hadoop, Spark, BigQuery.

ETL & Visualization: Apache Airflow, Matillion, AWS Glue, Qlik, Tableau, Power BI, Quicksight, Grafana.

Cloud & DevOps: AWS, EC2, RDS, S3, Azure, Docker, Kubernetes, Databricks, Git/GitHub, TensorBoard.

Tools: Jira, Agile, Scrum, Git, GitHub, MS Office Suite.

Projects

Personalized Music Therapy | Python, TensorFlow, Keras, Librosa, Pandas, Flask

- Designed a deep learning-powered recommendation engine to curate personalized music therapy playlists based on user emotional states, increasing user satisfaction by 35%.
- Implemented audio feature extraction using Librosa and refined the model with TensorFlow and Keras, achieving a 20% improvement in mood prediction accuracy.

Sales Forecasting Dashboard | Python, Tableau, Scikit-learn, NumPy, Pandas, ARIMA, Time Series Analysis

- Engineered an interactive dashboard to forecast sales trends, leveraging ARIMA and Scikit-learn, achieving a 95% forecasting accuracy.
- Enhanced decision-making capabilities by reducing RMSE by 25% through advanced feature engineering and model optimization.

Video-to-Anime Project | Python, OpenCV, PyQt5, TensorFlow, GANs

- Spearheaded a GAN-based video-to-anime conversion tool, transforming live-action footage into anime-style visuals with a 90% quality rating.

Certifications

IBM Data Science Specialization - 12 Courses

Achievements

- I was honored with the prestigious "**Take a Bow**" award in recognition of my exceptional innovation, including developing advanced automation tools, streamlining processes, and delivering impactful solutions that significantly enhanced operational efficiency and team performance.
- I received a prize in a **hackathon competition** during my **bachelor's**, awarded by our university **founders**, Dr. Sagunthala and Mr. Rangarajan.