VISHAL MUNIRAJ

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EDUCATION

Saint Louis University,   MO, U.S.A
Master's in Science – Computer Science – MSCS   December 2025
SRM Institute of Science and Technology,   Chennai, India
Bachelor's degree in Computer Science and Engineering- B.tech   May 2022

SKILLS SUMMARY

- Languages: Python, Java, SQL, C, C++, HTML, CSS
- Frameworks & Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, MySQL, SQL Server
- Tools: AWS, Docker, Kubernetes, GitHub, Trello, Power BI, Tableau, Cognos, MS Project
- Skills: Agile, Scrum, Project Planning, Scheduling & Implementation, Data Analysis, Machine Learning, ETL & Data Pipelines

EXPERIENCE

Programmer Analyst Trainee – **Cognizant ,** India   February 2022 – December 2023

- Directed the design and optimization of ETL processes with Informatica for seamless data extraction, transformation, and loading to enterprise systems. Designed and maintained Cognos reports and Tableau dashboards, which resulted in actionable business intelligence and decision-making. Used SQL to query and manage big datasets, simplifying access to data and the generation of reports.
- Collaborated with cross-functional teams in an Agile environment, employing Jira for sprint planning and task allocation. Made important contributions to data validation, debugging, and troubleshooting to maintain accuracy and consistency in reporting. Collaborated with stakeholders to determine business requirements and transform them into useful data solutions.
- Documented ETL processes, report processes, and troubleshooting procedures, facilitating smooth knowledge transfer and team onboarding. Continued learning and developing skills in data engineering, BI tools, and Agile methodologies, improving technical skills and problem-solving abilities.

Data Science Intern - **Verzeo,** India   June 2021 - Aug 2021

- Developed machine learning models using Python, Pandas, and Scikit-learn, focusing on data preprocessing, feature engineering, and model tuning. Built data visualizations with Matplotlib and Seaborn to enhance insights.
- Collaborated on real-world projects, applying Supervised and Unsupervised Learning techniques for predictive analytics. Gained hands-on experience in EDA, model evaluation, and deployment, strengthening technical and analytical skills.

CERTIFICATIONS

- **Line Follower Competition –** Indian Congress Association, Chennai (Certificate of Merit*)*
- **Certified Ethical Hacking Expert (Level 1.0) –** White Hat Hackers Club
- **Data Science Internship Certification –** Verzeo (Projects completed in association with Internspool)

PROJECTS

- **Major Project: Speech Accent Recognition** SRM**,** Chennai, India.   January 2022 - May 2022
  Developed a Speech Accent Recognition model using Deep Learning and NLP techniques to classify accents based on speech patterns. Preprocessed audio data with Librosa, extracted features using MFCCs, and trained models using TensorFlow and CNNs.

  Optimized model performance through hyperparameter tuning and data augmentation, improving classification accuracy. Built a user-friendly interface for real-time accent detection, enhancing accessibility and usability.

- **AI-Enhanced Helpdesk Ticketing System Project**   Sep 2024 – Dec 2024
  AI-Driven Helpdesk Ticketing System – Developed and designed an IT support system that applies web-based NLP and text classification to automate ticket assignment automatically according to categories and sentiment. Applied generative AI to provide intelligent recommendations to resolve commonly repeating issues and improved ticket routing optimization. Assisted in developing the CI/CD pipeline to deploy and scale efficiently. Applied software development best practices and design patterns to ensure reliability and ease of maintenance while streamlining IT support processes.