Sreekar Vadlamani

+1 812-325-3840 | sreekarvss@gmail.com | https://www.linkedin.com/in/sreekarvss/ | Aldie, VA.

Education

Indiana University (IUB), Bloomington, IN **Aug 2022 – May 2024**
Master of Science (MS) in Computer Science **GPA: 3.74/4**
Relevant Courses: Applied Machine Learning, Elements of AI, Advanced Database Concepts, Software Engineering, Applied Algorithms.

Publications/Certifications

- Text Summarization of Telugu Scripts. **I-SMAC - 2021**. IEEE Paper
- Certified CMMI Practitioner (Building Organizational Capability) by **ISACA** - **CMMI Institute - 2024**
- Deep Learning Specialization By Andrew Ng - **Coursera**

Skills

Languages/Databases: Python, Java, C/C++, JavaScript, SQL, HTML, CSS, PHP, MySQL, SSMS.
Tools/Software: AWS, Azure, Django, Apache, BitBucket, Databricks, PySpark, Git/GitHub, Tableau, PowerBI, Qlik, LaTeX, PyCharm, ReactJS, NodeJS, VS Code, MongoDB, (NoSQL).
Technical Skills/Data: PyTorch, OpenCV, Keras, Seaborn, Scikit-learn, Generative AI, Large Language Models (LLMs), Deep Learning, Natural Language Processing, Machine Learning Algorithms, Statistical Tests, Data Visualization, Statistical Modeling.

Work Experience

ANTS Corp | AI/ML Analyst | Herndon, VA **Sep 2024 – Present**
- Developed and deployed **AI/ML** models using **Python**, **Hugging Face Transformers**, and **GPT-4**, aligning with **Microsoft Azure OpenAI** capabilities, achieving a **15%** improvement in accuracy for **NLP** tasks and predictive analytics, enhancing data-driven insights.
- Designed interactive dashboards with **Power BI** and **Tableau**, enabling real-time **KPI** tracking and data-driven decision-making through advanced data analysis using **SQL**.
- Implemented **2FA** for **Apache** servers and databases, enhancing **security**, reducing unauthorized access incidents by **30%** and ensuring compliance with industry standards.

Hoosier Community Network | Business Data Analyst | Bloomington, IN **May 2024 – Sep 2024**
- Streamlined student health records, consultations, and insurance processes by implementing data-driven strategies, optimizing workflows, and reducing processing costs by **$4,000** per month.
- Employed **SQL**, **DAX** to create actionable reports, improving decision-making and cutting administrative inefficiencies by **30** hours monthly.
- Utilized **R** and **Power BI** to analyze health trends and identify key patterns, driving a **$12,000** increase in service efficiency through targeted interventions and strategic decision-making.

Indiana University Bloomington | Business Data Analyst | Bloomington, IN **Aug 2022 – May 2024**
- Orchestrated data validation and **ETL** processes for **3M+** records, reducing errors by **15%** and increasing efficiency by **30%** through Python and **Azure Data Factory** integration.
- Implemented **Power BI** dashboards with complex **DAX** calculations to enhance **supply chain management**, delivering practical insights on over **1,000 daily sales** and customer trends.
- Leveraged advanced **SQL** and **data analysis** techniques to consolidate data, uncover market trends, and drive a **20%** increase in sales with targeted recommendations.

Copperpoint Insurance Companies | Data Analyst | Phoenix, AZ **May 2023 – Aug 2023**
- Designed and optimized **ETL pipelines** to streamline data integration, achieving just in time delivery and a **20%** reduction in processing time for analytics.
- Enhanced data infrastructure by integrating **Databricks** with **Bitbucket** and deploying **AWS** solutions (**S3, Lambda**), improving scalability and operational efficiency in addressing claims.
- Improved query performance by **50%** through **PostgreSQL** optimization, enabling faster reporting and a **15%** increase in data accuracy for valuable business insights.

Tata Consultancy Services | Business Data Analyst | Hyderabad, India **Jul 2021 – Jun 2022**
- Designed and developed intuitive dashboards for American Express using **Tableau** and **matplotlib**, enhancing data visualization and decision-making by analyzing over **2,000** financial transactions daily in the Financial Services sector.
- Improved operational efficiency by **20%** through automating script upgrades and testing on **Linux**, ensuring reliability and performance.
- Recognized as "Knowledge Pro & Best Performer" for delivering high-quality solutions with technical expertise and client-focused excellence.

Projects

Home Credit Default Risk (HCDR) [Pandas, NumPy, Scikit-Learn, Python] **Jan 2023 - May 2023**
- Built and fine-tuned predictive models using **PyTorch**, applying **hyper-parameter tuning** and cross-validation with **logistic regression**, **random forest**, and **XGBoost** to achieve **90%** accuracy.
- Conducted **EDA** with Python, pandas, and Seaborn, identifying trends and engineering features that boosted model accuracy by **15%**.

AI Email Agent [Python, Groq API, Google Cloud Console APIs, LLM] **Jan 2025 - Present**
- Engineered a cutting-edge **AI-powered** email assistant leveraging **Groq API** and **Llama 3.3 70b SpecDec** to classify emails, extract meeting details, and automate scheduling with Google Calendar, while delivering personalized notifications to enhance productivity by **35%.**

Text Summarization of Indian regional language scripts [NLP, tokenization, LSTM, GRU, Python] **Dec 2020 - May 2021**
- Implemented **NLP** techniques for document summarization using **Transformers** on Kaggle datasets, achieving **33%** and **80%** reduction in text length. Optimized the process with the **Adam optimizer**, prioritizing efficiency over **GRUs/LSTMs** for enhanced performance.