

Vishaal Chandrasekar

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Education

University Of Bridgeport
Master's Degree in Artificial Intelligence | Grade: 3.67/4

Bridgeport, CT
2022 – 2024

Work Experience

Reframe Solutions
Artificial Intelligence Engineer

Windsor, Connecticut
05/2023 – 12/2023

- Constructed a small-scale, generative AI infrastructure for a government business registration platform, facilitating the online registration of over 1000 live businesses using GPT-2.
- Designed and implemented a specialized interface for efficient data transfer from Azure to SQL Server, leveraging advanced machine learning algorithms.
- Enhanced a Large Language Model (LLM) to implement GPT-3.5 for predictive analysis on Campaign Financing data, achieving a performance rate 10 times greater through the generation of synthetic data using diffusion models.

Mastech Infotrellis
Data Scientist Intern

Chennai, India
01/2022 – 06/2022

- Led the comprehensive analysis of the Costco dataset regarding rental/vacation package issues using Python, Power BI, IBM Cognos, and Tableau.
- Conducted in-depth analysis of Dexcom healthcare data to identify product issues by analyzing customer feedback, employing advanced techniques like decomposition trees for actionable insights.
- Contributed to the development of a foundational Python ML codebase for general data analysis, showcasing proficiency in programming and data manipulation techniques.

Side Projects

🔗 Ensuring Secure Bedtime Stories: Controlling Large Language models against adversarial attacks at children's narratives

- Implemented robust adversarial AI control mechanisms for a children's bedtime storytelling generative AI.
- Integrated cutting-edge technologies such as Tokenizer, autoencoder, one-class SVM, Meta LLAMA 2, and GPT-2.

🔗 Face Detection and Image Recognition with python - Vishaal Chandrasekar

- Published in the International Journal of Science and Research, showcasing advanced applications of AI in computer vision.
- Researched and implemented face detection and recognition using Python and OpenCV, leveraging the haar Cascade algorithm and local binary pattern histogram algorithm.

Achievements

- Data Engineering Excellence Award:** Recognized for outstanding contributions in designing and implementing multi-stage data pipelines for Large Language Models, significantly improving data processing efficiency.
- Best Innovation in AI/ML Project:** Awarded for leading a team to develop a Retrieval-Augmented Generation system that enhanced the accuracy and relevance of generated content, showcasing strong problem-solving and collaboration skills.
- Top Performer in Data Science Certification Program:** Achieved top marks in a comprehensive data science certification program, demonstrating proficiency in Python, data cleaning, and annotation processes relevant to LLM technologies.

Certifications

- Oracle Cloud Infrastructure Developer 2020 Certified Associate:** This certification demonstrates proficiency in Oracle Cloud Infrastructure, emphasizing skills in cloud services and development, which are essential for modern data engineering and AI/ML applications.
- Artificial Intelligence Infrastructure:** This certification from Microsoft focuses on Natural Language Processing (NLP), providing foundational knowledge and skills relevant to developing and implementing AI solutions, particularly in the context of large language models.

Additional Skills

- Artificial Intelligence
- Machine Learning
- Data Engineering
- ML Algorithms
- Python
- OpenAI API

- AI modelling and Deploying
- Data visualization
- Languages:** English (Fluent), Tamil (Fluent)