

Vishaal Chandrasekar

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Education

University Of Bridgeport

Bridgeport, CT

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

2022 – 2024

Work Experience

Reframe Solutions

Windsor, Connecticut

Artificial Intelligence Engineer

05/2023 – 12/2023

- Constructed a small-scale, generative AI infrastructure for a government business registration platform, enabling online registration for over 1000 live businesses.
- Designed and implemented a specialized interface for efficient data transfer from Azure to SQL Server, enhancing data management processes.
- 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 Infortrellis


Chennai, India

Data Scientist Intern


01/2022 – 06/2022

- Led the comprehensive analysis of the Costco dataset regarding rental/vacation package issues utilizing 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 such as decomposition trees.
- Contributed to the development of a foundational Python ML codebase tailored for general data analysis purposes.

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. International Journal of Science and Research(IJSR), Volume 10, Issue 3

- Researched and implemented face detection and recognition using Python and OpenCV.
- Explored the multifaceted application of artificial intelligence and machine learning in advanced computer vision.

Achievements

- AWS Certified Machine Learning:** Achieved certification demonstrating proficiency in building, training, and deploying machine learning models on the AWS platform, enhancing my skills in MLOps and cloud-based solutions.
- Best Paper Award at Medical Imaging Conference:** Recognized for presenting innovative research on deep learning applications in medical imaging, showcasing my ability to contribute to the healthcare sector through advanced AI technologies.
- Employee of the Month:** Awarded for exceptional performance in optimizing data preprocessing pipelines, significantly improving model training efficiency and demonstrating strong problem-solving skills.

Certifications

- Oracle Cloud Infrastructure Developer 2020 Certified Associate:** This certification validates proficiency in developing applications and services on the Oracle Cloud Infrastructure, showcasing skills relevant to cloud-based MLOps and DataOps

- pipelines.
- **Artificial Intelligence Infrastructure:** This certification from Microsoft focuses on Natural Language Processing (NLP), enhancing expertise in AI technologies that can be applied in machine learning and deep learning projects.

Additional Skills

- Artificial Intelligence
- Machine Learning
- Data Engineering
- AI modelling and Deploying
- Data visualization
- ML Algorithms
- Python
- OpenAI API
- **Languages:** English (Fluent)
- **Languages:** Tamil (Fluent)