

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, enabling over 1000 live business registrations online using GPT-2.
- Leveraged advanced machine learning algorithms to design and implement a specialized interface for efficient data transfer from Azure to SQL server databases.
- Enhanced a Large Language Model (LLM) by implementing GPT-3.5 for predictive analysis on Campaign Financing data, achieving a performance rate 10 times greater through synthetic data generation using diffusion models.

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Data Scientist Intern

Chennai, India

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 for actionable insights.
- Contributed to the development of a foundational Python ML codebase tailored for general data analysis purposes, 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.
- Technologies used include Tokenizer, autoencoder, one-class SVM, Meta LLAMA 2, and GPT-2.

🐙 Face Detection and Image Recognition with Python

- Published research in the International Journal of Science and Research, showcasing advanced applications of AI and machine learning.

- Technologies used include Python and OpenCV, utilizing the haar Cascade algorithm and local binary pattern histogram for face detection and recognition.

Achievements

- **Azure Solutions Architect Certification:** Demonstrated expertise in designing and implementing solutions on Microsoft Azure, enhancing cloud infrastructure optimization and deployment capabilities.
- **TensorFlow Developer Certificate:** Validated proficiency in building and deploying machine learning models, particularly in AI/ML projects, contributing to the development of innovative AI-driven solutions.
- **Employee of the Month:** Recognized for exceptional collaboration and problem-solving skills in a cross-functional team, leading to the successful deployment of a high-traffic application in a production environment.

Certifications

- **Oracle Cloud Infrastructure Developer 2020 Certified Associate:** Demonstrates proficiency in Oracle Cloud Infrastructure, validating skills in cloud development and deployment, essential for roles involving cloud-based solutions.
- **Artificial Intelligence Infrastructure:** Focuses on Natural Language Processing (NLP) within AI, highlighting expertise in developing AI-driven applications and integrating AI solutions in various environments.

Additional Skills

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