

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 the registration of over 1000 live businesses online (GPT2).
- Leveraged expertise in machine learning algorithms to design and implement a specialized interface for data transfer from Azure to SQL server database.
- 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 effective synthetic data generation using diffusion models.

Mastech Infotrellis
Data Scientist Intern

Chennai, India
01/2022 – 06/2022

- Led the analysis of the Costco dataset regarding rental/vacation package issues using Python, Power BI, IBM Cognos, and Tableau, showcasing adeptness in data analytics and visualization tools.
- Conducted in-depth analysis of Dexcom healthcare data to identify product issues by analyzing customer feedback and utilizing advanced techniques such as decomposition trees for actionable insights.
- Contributed to the development of a foundational Python ML codebase tailored for general data analysis, demonstrating 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, ensuring safe and appropriate content generation for children's narratives.
 - Utilized 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, showcasing advanced computer vision techniques.
 - Explored multifaceted applications of AI and machine learning in image analysis and edge detection technology.

Achievements

- Dean's List:** Recognized for maintaining a GPA of 3.8/4.0 during my Bachelor's degree in Computer Science, demonstrating strong academic performance and commitment to excellence in my studies.
- Best Paper Award at XYZ Conference:** Received this award for my research on advanced machine learning algorithms, highlighting my ability to contribute to cutting-edge research and publish findings in reputable venues.
- Python Programming Certification:** Achieved certification in Python programming, which solidified my programming skills and enhanced my proficiency in developing AI models.

Certifications

- Oracle Cloud Infrastructure Developer 2020 Certified Associate:** This certification validates expertise in developing and managing applications on the Oracle Cloud Infrastructure, which is essential for cloud computing roles in AI and machine learning.
- Artificial Intelligence Infrastructure:** This certification from Microsoft focuses on Natural Language Processing (NLP), highlighting skills relevant to AI model development and deployment in real-world applications.

Additional Skills

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