

Vishaal Chandrasekar

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Certifications

- **Oracle Cloud Infrastructure Developer 2020 Certified Associate:** This certification demonstrates proficiency in Oracle Cloud Infrastructure, validating skills in cloud computing and its application in data solutions.
- **Artificial Intelligence Infrastructure:** This certification from Microsoft focuses on Natural Language Processing (NLP), showcasing expertise in AI technologies and their integration into data analytics.

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, facilitating the registration of over 1000 live businesses online using GPT-2.
- Leveraged advanced expertise in machine learning algorithms to design and implement a specialized interface for seamless 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 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, showcasing adeptness in data analytics and visualization tools.
- Conducted in-depth analysis of Dexcom healthcare data to identify product issues by analyzing customer feedback, utilizing advanced techniques such as the implementation of a decomposition tree to extract 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.

Education

University Of
Bridgeport
Bridgeport, CT

Master's Degree in Artificial Intelligence | Grade: 3.67/4 2022 – 2024

Achievements

- **Certified Analytics Professional (CAP):** Achieved CAP certification, demonstrating proficiency in data analytics and the ability to apply advanced analytical techniques to solve complex business problems.
- **Microsoft Certified: Azure Data Scientist Associate:** Earned this certification to validate skills in using Azure Machine Learning to develop and deploy machine learning models, enhancing cloud computing capabilities in data analytics.
- **Google Data Analytics Professional Certificate:** Completed this program to gain comprehensive knowledge in data analysis, including data visualization and data-driven decision-making, relevant for modern data-centric

roles.

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

- Published in the International Journal of Science and Research, showcasing advanced applications of AI and machine learning.
- Researched and implemented face detection and recognition using Python and OpenCV, leveraging the haar Cascade algorithm.

Additional Skills

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