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, facilitating the online registration of over 1000 live businesses.
- Leveraged advanced expertise in machine learning algorithms to design and implement a specialized interface for efficient 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 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 and implementing advanced techniques such as decomposition trees.
- 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.
- 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 research in the International Journal of Science and Research (IJSR).
- Explored the application of AI and machine learning in advanced computer vision and image analysis.

Achievements

- **Machine Learning Excellence Award:** Recognized for outstanding contributions in developing and deploying a machine learning model that improved predictive accuracy by 30%, significantly enhancing project outcomes.
- **Data Science Scholarship:** Awarded a scholarship for academic excellence in Data Science, demonstrating a strong foundation in statistical analysis and machine learning methodologies.
- **Team Collaboration Recognition:** Acknowledged for exceptional teamwork in a cross-functional project that successfully integrated machine learning solutions with software engineering practices, resulting in a 25% increase in project efficiency.

Certifications

- **Oracle Cloud Infrastructure Developer 2020 Certified Associate:** This certification demonstrates proficiency in developing applications and services on the Oracle Cloud Infrastructure, showcasing skills relevant to cloud-based machine learning solutions.
- **Artificial Intelligence Infrastructure:** This certification from Microsoft focuses on Natural Language Processing (NLP), highlighting expertise in AI technologies that are essential for machine learning applications.

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)