Vishaal Chandrasekar

 Bloomfeild, United States of America   +1 475-312-7388   ✉ vishaalchandrasekar0203@gamil.com   in LinkedIn   GitHub

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 over 1000 live businesses to register online using GPT-2.
- Designed and implemented a specialized interface for seamless data transfer from Azure to SQL server database, leveraging advanced machine learning algorithms.
- 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 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, 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 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, ensuring safe content generation for children's narratives.
- Utilized advanced technologies including 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, showcasing innovative applications of AI in computer vision.

- Implemented face detection and recognition using Python and OpenCV, leveraging the haar Cascade algorithm and local binary pattern histogram.

Achievements

- **AWS Certified Machine Learning:** Achieved certification demonstrating proficiency in building, training, and deploying machine learning models on AWS, aligning with the technical requirements of AI/ML engineering roles.
- **Best Project Award in Machine Learning:** Recognized for developing an innovative predictive model that improved forecasting accuracy by 30%, showcasing strong problem-solving skills and practical application of machine learning frameworks.
- **Agile Certified Practitioner:** Completed certification in Agile methodologies, enhancing collaboration skills and understanding of Agile practices, which are essential for effective teamwork in cross-functional environments.

Certifications

- **Oracle Cloud Infrastructure Developer 2020 Certified Associate:** This certification demonstrates proficiency in developing and deploying applications on the Oracle Cloud Infrastructure, showcasing skills that are relevant for cloud-based AI/ML solutions.
- **Artificial Intelligence Infrastructure:** This certification from Microsoft focuses on Natural Language Processing (NLP), highlighting expertise in AI infrastructure that is essential for building and managing AI-driven applications.

Additional Skills

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