Vidyuth Krishna Sriram

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EDUCATION

SASTRA Deemed University   **Thanjavur, India**
Bachelor of Technology: Computer Science (Artificial Intelligence and Data Science) GPA: 7.91   May 2024
Courses: Machine Learning Techniques, Predictive Analytics, Healthcare Data Analytics, NLP, Big Data Analytics, Time Series Analysis, Deep Learning, Computer Vision and Pattern Recognition, Data Warehousing and Data Mining, DBMS

University at Buffalo   **Buffalo, NY**
Masters in Engineering Science (Data science)   Oct 2024
Courses: Numerical Math Computing for Data Science, Statistical learning, Programming Database Fundamentals (Ongoing)

INTERNSHIP/INDUSTRIAL TRAINING

Rapid Acceleration Partners   **Chennai, India**
Machine Learning Intern   Aug 2022 – Sep 2022
- Built a Named Entity Recognizer (NER) using Spacy NLP.
- Text Classification using Spacy
- Image Classification with Fast.ai.

Rapid Acceleration Partners   **Chennai, India**
Machine Learning Intern   July 2023-Aug 2023
- Deployed 3 AI models with advanced NLP: Machine Translator, Summarizer, Question Answering with HuggingFaceAI.
- Integration of the 3 AI on a Django server with a clean front end.
- Deployed Sketch-Recognizer AI with CNN

Rapid Acceleration Partners   **Chennai, India**
Machine Learning Intern   Jan 2024-Apr 2024
- Finetuning and testing of LLMs such as TinyLlama, GPT-2 and WizardLM
- Worked on applications with LLMs such as PDF Virtual QA and Medical AI Chatbot
- Deployed a Retrieval Augmented Generation Pipeline
- Finetuned models were hosted on Huggingface Hub achieving over 400 public downloads

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PROJECT EXPERIENCE

Detection and Classification of Arbitrages in Ethereum transactions, 02/23-06/23
- Detection of various exploitations/attacks in Uniswap ETH transactions (front running/back running/sandwich attacks).
- Exploratory Data Analysis on the Uniswap dataset to extract various insights that helped in modelling.
- Classification of the 3 attacks with various Machine Learning algorithms like Logistic Regression, Gradient boosting, etc.
- Prediction of the type of attack with various Machine Learning algorithms like Linear Regression, KNN, SVM, etc.

Breast Cancer Prediction with Machine Learning, 04/23-06/23
- Exploratory Data Analysis of Wisconsin Breast Cancer dataset for identifying and visualizing the data.
- Implementation of various Machine Learning models like Logistic Regression, KNN, Naïve Bayes, etc.
- Hyperparameters tuning like GridSearch to further improve accuracy to 91%.
- Evaluation of the classifier with various evaluation metrics like f1-score, precision, recall.

Credit CardDetection with Deep Neural Networks/Deep Learning, 10/22-12/22
- Exploratory Data Analysis of credit card dataset to clean and identify the data.
- Data Normalization after splitting the data into targets and inputs.
- Model definition and compilation for training the data.
- Evaluation of the Neural Network with various evaluation metrics, thereby achieving 94% accuracy.

CERTIFICATIONS

Google Data Analytics: Data, Data, everywhere (online),
December 2022 to January 2023
On Google, Coursera
Microsoft: Build a computer vision app with Azure Cognitive Service,
November 2022
On Microsoft, Coursera
Facial Expression Recognition with Pytorch guided project (online)
November 2022
On Coursera project network
Machine Learning pipelines with Azure ML Studio (online)
November 2022
On Coursera.
JP Morgan Chase & Co.: Software Engineering Virtual Experience (online)
June 2023
On JP Morgan Chase & Co, Forage.

SKILLS

Programming: Python, SQL, C++, C, Java; **Web Development:** HTML/CSS, Django, Flask **MS Office:** Microsoft Excel, Microsoft PowerPoint, Microsoft Word; **Database Management:** MySQL; **Big Data:** Hadoop, Pig, Hive, HBase. **Data Science:** Python, Tableau, Data Cleaning and Normalizing data**,** Data Visualization **Machine Learning:** NLP, Predictive modelling, Deep Learning, LLM Finetuning, LLM Inferencing, RAG

EXTRACURRICULARS

Captain – Soccer team - Winners of Collosseum'23, Third Place in CM trophy, South Zone player.
SASTRA Football Team, July 2021 – Mar 2024,
Thanjavur - 613401
Professional Keyboard player – Performed many concerts in Chennai, Guinness World Record Participation Certificate holder.
Chennai - 600020

COMMUNITY SERVICE

Member – Done multiple beach cleanups, Adyar river cleanups, Slum cleaning, helped people during 2014 floods in Chennai
RSS (Rashtriya Seva Samithi),
March 2013 – June 2017.
Public Policy – Digital Literacy Empowerment and career counseling in Thanjavur districts.
SASTRA Deemed University,
June 2023 – Dec 2023.