MOHAN TEJA DHARMAVARAPU

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Portfolio: https://mohantejad.vercel.app/

SUMMARY

Detail-oriented Machine Learning expert with experience over analysing complex datasets to identify trends and support decision-making in high-stakes environments. Proficient in SQL, Python, and data manipulation tools such as Pandas, NumPy, etc. Skilled in developing and maintaining dynamic dashboards and reports for internal and external stakeholders. Adept at collaborating with cross-functional teams, ensuring data accuracy, and delivering actionable insights to optimize performance and mitigate risks. Familiarity with cloud technologies (AWS, GCP) and a proven ability to adapt to fast-paced, dynamic settings.

SKILLS

- **Programming and Scripting:** Python and JavaScript
- **Machine Learning:** PyTorch, Hugging Face, Generative AI, LLMs
- **Backend:** Algorithms & Data Structures, FastAPI, Django
- **Cloud:** AWS (EC2, Lambda, Sage Maker, etc), GCP

PROJECTS

Pedestrian Detection: **GITHUB**

- Developed real-time computer vision model to detect and track pedestrians on the street.
- Fine-tuned YOLOv7 model for accuracy and speed, integrated DeepSORT for object tracking.

Medical Transcripts Summarization: **GITHUB**

- Created an AI model to summarize medical reports, aiding doctors in diagnosing patients.
- Fine-tuned **BERT**, **GPT**, **BART**, and **T5** models, with **T5** performing best for summarization tasks.

EXPERIENCE

Software Engineer [October 2023 – April 2024]
Open Law – Sydney, Australia

- Automated data pipelines and data cleaning processes, significantly improving data accessibility and quality for future training and testing.
- Created and implemented **machine learning models** using **TensorFlow** to automate critical tasks, enhancing efficiency and integrated to backend application.

Data Analyst Intern [February 2023 – May 2023]
University of New South Wales (UNSW) – Sydney, Australia

- Conducted in-depth data analysis using **Pandas**, **NumPy**, **Matplotlib**, and **Seaborn**, providing actionable insights to guide business decisions.
- A Developed and deployed **machine learning models** with **TensorFlow**, automating key processes and improving data handling.

Programming Analyst [January 2019 – December 2019]
Cognizant Technological Solutions – Bangalore, India

- Developed a **full-stack application** using **React.js** and **Django** to display real-time **zero-day exploits** for the cybersecurity team, automating the tracking and reporting of vulnerabilities.
- Collaborated with the **cybersecurity team** to write **Python scripts** that automated vulnerability assessments using **BurpSuite**, **Wireshark** and **Metasploit** with reporting detailed findings.

EDUCATION

Master of Information Technology [February 2020 – December 2022]
University of New South Wales (UNSW) – Sydney, Australia

Bachelor of Computer Science and Engineering [June 2015 – April 2019]
Gandhi Institution of Technology and Management (GITAM) – Vizag, India

CERTIFICATIONS

- Data Science, ML and DL Bootcamp Udemy Course – Krish Naik
- Django and React E-commerce Udemy Course – Dennis Ivy

VISA

- Temporary Graduate Visa
- Subclass 485 with full work rights in Australia that is valid until May 5, 2028