Vamsikrishna Chemudupati

Experience of 3+ years developing prediction-based software systems in the field of machine learning and automation. Knowledge of working on Deep learning, Time series problems and automotive software.

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Github
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EDUCATION

Master of Science - Computer Science (Machine learning)
University of Montreal (MILA Lab, Montreal)

Sept 2021 – May 2023 — Montreal, Canada

- Fundamentals of Machine learning
- Representation learning (Deep learning)
- Data Science
- Applied ML projects

Bachelor of Technology, Electronics and Communication
Vellore Institute of Technology — **GPA: 8.75/10.0**

July 2014 – May 2018 — Vellore, India

WORK EXPERIENCE

Senior Technical Analyst
Hexaware Technologies

12/2020 – 08/2021 — Bangalore, India

- Implemented an automatic IT ticket allocation system using Word2vec embedding layer and GRU network. Obtained an accuracy of 76% and tickets were allocated to 6 workgroups using ITSM tool Servicenow.
- Constructed an ETL pipeline to automate the periodic IT operations on servers at a global level for a reputed banking client using Airflow framework, Rest API, CI/CD tools and python.

Research Engineer
Hyundai Mobis

07/2018 - 11/2020 — Hyderabad, India

- Implemented a hybrid method combining deep CNN and GRU network for instantaneous vehicle speed estimation in Antilock braking systems.
- Achieved a target of Mean squared error of less than 2% of the maximum vehicle speed considering various conditions of roads with respect to mu.
- Deployed the vehicle speed prediction model onto the ECU using Matlab embedded coder toolkit, integrated with the main braking system and performed vehicle test as a part of the research project.

Intern
Sony India Software Centre

11/2017 - 06/2018 — Bangalore, India

- Worked on the development of a scene recognition deep learning library using Mobilenetv1 network to be deployed on Sony mobile phones
- Developed an end-to-end ML pipeline for 60000 image dataset preparation, Feature extraction, training the model and evaluating using python and shell scripting. The pipeline processes incoming test data and returns the calculated f-score.

SKILLS

- Programming: Python, C, Shell, Matlab, Simulink , Jenkins
- ML: Pytorch, Keras, Sklearn, Pandas, NumPy, Matplotlib, Flask
- MLSkills: Machine learning, Time series prediction, Deep learning, Text classification
- Tools: Git, Apache airflow, Docker, REST Api, CI/CD
- Operating systems: Linux, Windows.

COURSE PROJECTS

Goal predictor system for live NHL games using ML algorithms

- Collected Data from NHL website using Rest API for multiple seasons and developed widget to improve data display
- Performed feature extraction on dataset to derive important features such as Shot angle, Shot Distance and previous game event details.
- Performed a comparative study of algorithms such as Ensemble models, fully connected networks and Gradient boosting techniques developed for predicting the chances of a Goal.
- Deployed the live predictor system using Flask app and used Docker for shipping the application.

AWARDS & CERTIFICATIONS

1. International Student Scholarship (Bourse C) - Offered funding to pursue a Master's degree in Computer Science with University of Montreal.
2. Microsoft certified for Azure Fundamentals,2021
3. Neural network and Deep learning, Coursera,2019