SAI SHASHANK MUDLIAR
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Summary

Software Engineer with experience working on consumer-facing desktop tools using Java, python, AI, and Machine Learning. Seeking software engineering internship opportunities.

EDUCATION

- M.S. (Computer Science), Purdue University, Fort Wayne, IN — 2021-23
  Machine learning, Data Structure, Data Science
  GPA:4.0/4.0
- Bachelor of Engineering (Computer Science), — 2015-19
  Rashtrasant Tukadoji Maharaj Nagpur University, India
- Deep Learning — 2019-20
  Coursera
- DeepLearning.Ai Tensorflow Developer — 2019-20
  Coursera
- Using TensorFlow with Amazon Sagemaker — 2019-20
  Coursera

TECHNICAL SKILLS

Languages: Java, python, Node.js, SQL
Frameworks: Express.js, Angular.js
Web Technologies: HTML5,CSS,bootstrap
Database Technologies: MySQL, SQL, Mongodb
Tools: Git, Swagger, Elastic-Search, Logstash, Kibana, JIRA
Testing: selenium Web-Driver
Cloud Technologies: AWS EC2, AWS S3, GCP Vertex AI,GCP BigQuery , Firebase, Fire store
Machine Learning Libraries: OpenCV, Pytorch, Tensorflow, Jupyter Notebooks

PROFESSIONAL EXPERIENCE

NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE — Jan'21 – Aug'21
Project Associate

- As part of Air Pollution monitoring, NEERI found a higher concentration of pollutants in a some pockets of Nagpur city. The objective of the project was to find out the cause of the pollution by measuring the number of Vehicles, types, density during the time of the day thereby creating the Emission Inventory using AI
- Developed a model in python using Deepsort and YOLOv5 algorithm to identify and count the vehicles by type and thus estimate pollution at a particular time on a particular street with an accuracy of 94%
  ACHIEVEMENT : Appreciated and Supported by the Director of Maha Metro, Nagpur city and this project will also be used solely to determine the width of new roads to be constructed by evaluating peak traffic density
- Trained Vertex AI to create 5 Annotation Sets and deployed the trained model to identify and count indigenous vehicles in India with an accuracy of 92%. Pilot project executed in 2 cities so far with over 40k vehicles processed daily
  ACHIEVEMENT : Detailed idea and the Proof of Concept proposal approved by Google and are in the final stages of grant discussion
- Spearheaded and Implemented LINUX, PBS-script based WRF (Weather Research and Forecasting Model) on India's supercomputer – Param.
  ACHIEVEMENT : Cost saving of 2000USD per month , Since This task was outsourced previously but since the now the WRF is implemented on premise server()

NUMER8 — May'19 – Jun'20
Business Intelligence Analyst

- Worked on a Problem Statement to create a bait to plate model and help fisherfolks be more profitable by improving daily trade. This was done by determining potential fishing zones using the geo-spatial satellite data through mobile application "OFish". This also translated into sustainable and traceable means of fishing.
- Developed a time series prediction model using TensorFlow (RNN) to predict oceanic conditions across 11 parameters **ACHIEVEMENT :** The app has helped fisherfolks in Mumbai and Sindhudurg reduce diesel cost by 25% and improve sales margins by 10% thereby supporting sustainable fishing
- Built a Mongodb data base and P&L Dashboard in PowerBI for a microbrewery to evaluate daily SKU level consumption trend and thus predict beer production to minimize wastage and ageing

OTHER ACHIEVEMENTS

- GitHub, Arctic Code Vault Contributor: Code added to the GitHub Archive Program (2020)
- Uber Hackathon, Hack Tack: In top 100 out of the 25k participants (2021)

POSITIONS OF RESPONSIBILITIES

- Joint Overall Coordinator for Computer Science department governing a batch size of 500, involved in budgeting, planning and conducting technical and cultural events at College (2017-18)
- Head of Literature Committee and actively involved in searching new talent, training, researching, and mentoring members for various inter-collegiate events (2018-19)
- Campus Ambassador for the biggest inter-college event: Axis in Nagpur (2019)