Gauranggiri Meghanathi

Student Assistant/TensorFlow Developer

As a Master's student in mechatronics and cyber-physical systems, I have acquired valuable knowledge in machine learning and deep learning techniques through practical implementation in a project at Fraunhofer IKTS.

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WORK EXPERIENCE

Student Assistant
Fraunhofer IKTS

09/2022 - Present   *Dresden, Germany*

Achievements/Tasks

- Developed a web application for streamlined data cleaning and model training processes.
- Reduced data cleaning time from **1 -2 days** per dataset to **5-7 minutes** through the web application.
- Focused on experimental data collection on the Aerosol Jet Printer to predict line width and optimize production processes for time and cost savings.

Junior Automation Engineer
Immortal innovation

12/2018 - 09/2019   *Jamnagar, India*

Achievements/Tasks

- Servicing and commissioning of protective electrical gear.
- Installation and maintenance of electrical panels.
- Programming of various PLCs (Delta, Fatek, and Siemens).

PERSONAL PROJECTS

APS Failure Detection in Heavy Duty Vehicles using Machine Learning. ☑

- **Goal   :** Developed a solution to enhance heavy-duty vehicles maintenance efficiency by accurately detecting and predicting failures in air pressure systems using machine learning.
- **Technologies Used :** Airflow, AWS EC2, Docker, ECR, Git, GitHub Actions, MongoDB, Python, XGBoost.

Alzheimer's Disease Detection. ☑

- **Goal   :** Developed a web app for early detection of Alzheimer's disease using MRI images.
- **Technologies Used :** AWS EC2, DVC, Docker, Flask, Git, GitHub Actions, MLflow, MongoDB, Python, TensorFlow (CNN). (Project Demo)

EDUCATION

Masters in Mechatronic and Cyber-Physical Systems
Deggendorf Institute of Technology

03/2020 - Present   *Cham, Germany*

Bachelors in Electrical Engineering
Gujarat Technological University

09/2013 - 08/2017   *Gujarat, India*

SKILLS

Python C++ SQL Azure ML Studio TensorFlow Keras Scikit-learn OpenCV Matplotlib Seaborn NumPy Power BI Flask FastApi MySQL MongoDB GitHub GitHub Actions Docker MLflow DVC Pandas

ACHIEVEMENTS

- STIBET Scholarship (11/2020)
- STIBET Scholarship (11/2021)

CERTIFICATES

TensorFlow Developer Certificate (04/2023) ☑

AI-900: Microsoft Azure AI Fundamentals (03/2023) ☑

LANGUAGES

Language	Level
English	●●●●○
Hindi	●●●●●
Gujarati	●●●●●
German	●●○○○

INTERESTS

Travelling   Music   Cooking