Dantuluri Jayanth varma

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Born: 15th January 1997

At a Glance

- **Graduate student** with good theoretical and practical knowledge on Data Science | Machine Learning | Deep Learning | Computer Vision | NLP | Exploratory Data Analysis.
- Strong programming skills in Python, R and good in Statistics.
- Keen to learn and **explore new things**. Completed 8 Data science projects (6 Academic and 2 Personal projects) during my masters.
- Currently working on Sensor fusion and Artificial intelligence for the robotic applications at **Infineon technologies**. Working with Python | Tensorflow | Pytorch | Linux | CUDA | Radar signal processing.
- Gained experience of 7 months as a **software developer** before moving to Germany. Worked with Python | MySQL | PostgreSQL | AWS DynamoDB | AWS Lambda.
- **Quick learner** with a strong **passion for data** and to deliver **good quality code**. I enjoy **working in a team** as well as **independently**.
- Responsible | Communication Skills | Organized | Goal-Oriented | Analytical Skills

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Work Experience

02/2021 – Present **Infineon Technologies** | Dresden (Germany) | www.infineon.com

Master Thesis

- Applying Sensor fusion (Radar + 3D time of flight) and AI for the detection and tracking of persons in real-time.
- Additionally, analyzing the human behavior (estimating human velocity, range and direction of movement).
- Built a novel fusion approach and evaluate it by comparing the results of 3D object detection model on point cloud data with 2D object detection models on image data.
- Challenges: Dealing with point clouds for 3D object detection and tracking, signal processing for detecting objects from the radar sensor.
- Framework: **Pytorch, Tensorflow**

Project

- Working in agile teams on applying Sensor fusion and AI for robotic arm movement.
- Controlling the robot behavior based on human interaction.
- Human activity classification and detection from the ToF sensor.
- Estimating human velocity, range and angle information from the Radar sensor.
- Framework: **Tensorflow**

06/2018 – 10/2018 **Axiom IO** | Hyderabad (India) | www.axiomio.com

Software Developer

- I have been deployed to 3 different projects throughout my tenure.
- My tasks were to write back-end programs for the application using Python, AWS Lambda, and Database design (Dynamodb, MySQL) of the business objects.
- Creating API's and testing them using the Postman tool.

02/2018 – 03/2018 **Axiom IO** | Hyderabad (India) | www.axiomio.com

Software Developer Intern

- During the training period, I have worked on Database design using MySQL and Postgresql.
- Fixing bugs in the application and optimizing the code written in Python.

Education

03/2019 – Present **Otto-von-Guericke-Universität** | Magdeburg (Germany)

Master degree in Data and Knowledge Engineering

- Data Mining: Supervised Learning methods | Unsupervised Learning methods | Association rule Learning
- Machine Learning: Linear Regression | Naïve Bayes | Decision Trees | Random Forests | SVM | Clustering | Neural Networks | Reinforcement Learning | Semi-Supervised Learning | Constraint clustering
- Deep Learning: InceptionNet | DenseNet | ResNet | Convolution Neural Networks | Recurrent Neural Networks | LSTM | GRU | Autoencoders | Transformers | BERT | GPT
- Data Science with R | Visual Analytics | Information Retrieval | Database Management

08/2014 – 04/2018 **Jawaharlal Nehru Technological University** | Kakinada (India)

Bachelor degree in Computer Science and Engineering

- Final Grade: 2.2

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Academic Projects

04/2020 – 07/2020 **Genre Identification of English Fiction Books**

https://github.com/jayanthvarma1501/Genre-Identification-on-Gutenberg-Corpus

- Classification of Genre of fiction books based on handcrafted features using Python, and tackled multi-class classification with measures to overcome Class imbalance problem.
- Feature extraction | Feature Scaling | Model Selection.
- Models implemented: Random forests, SVM, Logistic regression.
- Tools: **Python** | **Scikit-learn**

09/2020 – 10/2020 **Sentiment analysis of Movie reviews using BERT Transformer**

https://github.com/jayanthvarma1501/Sentiment-analysis-using-BERT

- Classification of movie reviews as either positive or negative. Used the Bert Pre-trained model and fine-tuned the model to fit our classification task.
- Achieved 92 percent test accuracy.
- Tools: **Python** | **Tensorflow**

11/2020 – 12/2020 **Comparing AI and Traditional Model for Temperature Prediction**

https://github.com/jayanthvarma1501/temperature-prediction

- Prediction of daily temperature based on historical values. Compared the results of trailing moving average algorithm with AI-based LSTM and GRU networks.
- Tools: **Python** | **Tensorflow**

Achievements

09/2019 – 10/2020 **DeepLearning.AI TensorFlow Developer Professional Certificate** | Coursera

https://coursera.org/share/70d83a84f40d6ca44a1d4de0b0e03262

03/2020 – 04/2020 **Deep Learning Computer Vision™CNN,OpenCV,YOLO,SSD GANs** | Udemy

http://ude.my/UC-46e2c66a-8ed6-4afb-a2ec-12db1f0354cf

Technical skills

PROGRAMMING	Python | R | Java
SOFTWARE TOOLS	Tensorflow | Keras | Pytorch | Scikit-learn | OpenCV | Pandas | SQL | NumPy | Docker | MatplotLib | Tableau | AWS DynamoDB | AWS Lambda | Image Processing | Signal Processing | Data Structures and Algorithms
HARDWARE	Radar | Time of Flight | Jetson nano
IDE	Google colab | RStudio | Jupyter notebook | PyCharm | Spyder | Eclipse | VS code
OPERATING SYSTEM	Windows | Linux
OTHERS	Git | Jira | Latex Documentation
LANGUAGES	**Telugu**: Native | **English**: Business Fluent | **German**: Basic Knowledge A2 (Learning)

Additional Information

Hobbies & Interests Travelling, Sports, Cooking, Jogging

Dresden, 29.08.2021