Prudhvinath **Reddymalla**

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Nationality:	Indian
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Work Experience

10.2020 – Present **Consultant - Data Science**
Alter Solutions Deutschland GmbH, Düsseldorf, Germany.
- Data Analysis on Banking Fraud detection data
- POC preparation for AI Consulting in Banking Sector
- Trainings (AWS Cloud, Celonis Data Analyst & Engineer)

08.2019 – 06.2020 **Student Research Assistant**
Fachhochschule Südwestfalen, Soest, Germany.
- Data Analysis and Visualization for Predictive maintainence
- Coded Reinforcement learning environments for academic tasks.
- Implemented and collected results of hypotheses generated by PhD students.

09.2015 – 03.2018 **TRMS Investigator – German**
Amazon Development Centre, Hyderabad, India
- Fraud risk analysis based on the data generated by customer
- Eliminated credit risk based on the previous order history
- Created new SOPs based on the ongoing fraud patterns and modus operandi

Education

04.2018 – 08.2020 **Master of Science in Systems Engineering and Engineering Management**
Fachhochschule Südwestfalen, Soest, Germany
Focus areas: Machine Learning, Reinforcement Learning, Advanced Production Engineering, Modelling and Simulation of Mechanical Systems.
Other areas: International Project Management, Integrated Management and Business & Engineering.

09.2011 – 04.2015 **Bachelor of Technology in Mechanical Engineering**
Jawaharlal Nehru Technological University Hyderabad, India
Focus areas: Machine design, Production Engineering, Kinematics and Dynamics of Machines, Operations Research.

Internships

06.2014 **Diesel Loco Shed (South Central Railway), Kazipet, India**
- Worked on the maintenance of diesel locomotives.
- Learnt service maintenance of different sections on a diesel locomotive.

Academic Projects

- Currently working on GANs and tabular GANs based on the recent research papers published.
- Neural Style Transfer model based on Neural Algorithm of Artistic Style as a part of Hackathon organised by Tvarit GmbH.
- Extensive exploratory Data Analysis, and application and comparison of different classification models on Banking Fraud detection data.
- Coding for an n*n dynamic Grid World with wall blocks Environment for an RL agent.
- Comparison of Neural Networks and Gradient Boosting Techniques (XGBoost and AdaBoost) for Fault detection and identification of the Tennessee Eastman Process.
- Trained Classification models on data from Kaggle using Scikit-learn.
- Designed and developed of Unmanned Aerial and Ground Vehicle as a part of bachelor thesis project.

Certifications

- Currently ongoing – Amazon Web Services (AWS) Certified Machine Learning Speciality.
- AWS Certified Cloud Practitioner (*Credential Id: QCTS60DJKNREQ6CE*)
- Lean Six Sigma Green Belt. (*Credential Id: 18671948*)
- Reinforcement Learning Specialization, *Alberta Machine Intelligence Institute, Coursera.*
  - **Focus Areas:** Sample based methods, Prediction and Control with Function Approximation
- Deep Learning Specialization, *deeplearning.ai, Coursera.*
  - **Focus Areas:** Neural networks, Improving Deep Neural Network, structuring machine learning projects, Convolutional Neural Networks, Sequence Models.
- Celonis tool – Analyst and Data Engineer.

Skills

- **Skillset:** Deep Reinforcement Learning, Machine Learning, Advanced Production Engineering, Programming.
- **Programming Languages:** Python, MATLAB & Simulink, Java, basics of SQL and R.
- **Python Libraries**: PyTorch, TensorFlow, Keras, Gym, Scikit-Learn, XGBoost, Numpy, Pandas, Plotly, Seaborn, Matplotlib, Flask.
- **Tools and Technologies:**, AWS, Spyder, PyCharm, VS Code, Sublime Text, Jupyter Notebook, Git, Minitab, Tableau, Celonis, AutoCAD, Catia V5, MS Office, MS Project, MS Publisher.
- **Operating Systems:** Windows, MacOS, Linux (Ubuntu).
- **Interpersonal Skills:** Public speaking, Team player, Adaptability.
- **Languages:** English, German, Hindi, Telugu.

Hobbies

- Reading research papers and articles, python coding, Sketching, Painting, Cricket, Basketball and Running.