MADHUSUDAN KUMAR

Senior Data Scientist



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max12525k

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SKILLS

Python	Plotly Pyte	st Scikit-le	earn Pandas	Tenso	orflow	PyTorch	Large La	nguage N	/lodel	LangChain
FastAPI	MongoDB	VectorDB	MYSQL/Postg	reSQL	Git	Pulumi	MLFLow	AWS	Linux	Docker

PROFESSIONAL EXPERIENCE

Senior Data Scientist

SecureThings.ai

Sep 2022 - Ongoing

- Mumbai India
- Developed spacy pipeline to extract cybersecurity 50+ labels and 20+ relationships from 2000000+ semi-structured texts to generate knowledge graph with 70+ accuracy.
- Designed and developed LLM pipeline using langehain to improve labels and relationship extraction by 15% and reducing the time taken by 90%.
- Collaborated with stakeholders to design and implement data pipeline, machine learning pipeline and machine learning operation on aws cloud using IaC(Pulumi).

Senior Data Scientist

Tata Consultancy Services

Feb 2022 - Sep 2022

- Mumbai, India
- Led the development of web based ML exporlation tool for 40% faster development of ML usecases for telecom.
- Developed ML based solution for 10+ usecase from scratch for telecom fault and performance management leading to decrease in 15% reduction in events and enable close loop automation for 25% event.
- Collaberated with clients to reduce the delivery time of mutually agreed milestone by 5%.

Data Scientist

- Proposed, designed & built Python package for integration of 24+ ML use cases across 4+ applications, reducing integration time by 60%.
- Improved predictive maintenance by one day-ahead forecasting of faults and reducing the operation cost by 18%.(POC).
- Reduced number of tickets by 6% via automating the identification of alarm's cluster with root alarm (POC).
- Improved network performance by deploying anomaly detection algorithm on azure cloud for network loss and latency, detecting half an hour prior to performance degration (IP filing in process).
- Automated and optimised monthly forecasting of claims paid and premium collected, reducing average Mape by 10%.

EDUCATION

M.Tech+B.Tech in Mechanical Engineering

Indian Institue of Technology, Bombay

Jul 2013 - Nov 2018

Mumbai, India

- Sucessfully designed process to predict failure time of machines on the network to minimize the operation down time.
- Proposed and implemented standard template using owl ontology to digitally store properties of machine component from different vendors.
- Sucessfully headed official video channel, leading a team of 6 conveners, creating 60+ videos and covering 35+ events, with nearly 2 million views
- Researched on pattern formation and created meaningful visualization as an Intern in Non Linear Dynamics at Chiba University, Japan.