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Tiger Analytics | Indian Institute of Technology Madras

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Summary

Data Scientist proficient in large language models (LLM), deep learning algorithms, and natural language processing. Demonstrated ability to deliver valuable insights through data analytics, with a solid qualitative background. Skilled in document AI, topic modeling, and text matching algorithms.

Expertise: LLM, Deep Learning, NLP

Professional Experience

Tiger Analytics

Senior Data Analyst

Chennai, India

December 2021 – Present

○ Advanced Analytics Research Team

- Developing a library to automate the generation of predefined code templates for diverse NLP/LLM applications
- Developed a QnA system transforming documents into chatbots using Langchain and open-source LLM models.
- Extracted underlying data from different kind of documents like handwritten texts, and invoices with an F1 of 0.78
- Gained hands-on experience with libraries for document understanding(LayoutLM), QnA(Donut) and different embeddings like BERT, sentence-transformers
- Created an embedding based deep learning model to map products with similar description that supports multiple embeddings like BERT, sentence-transformers with an F1 of 0.84.
- Worked on a machine learning model for the analysis of the aspect based sentiment from product reviews
- Implemented a transformer based algorithm for efficient topic clustering within documents and facilitated the visualization of these topics

○ Consumer Packaged Goods (CPG) Team

- Analyzed the level impact of different business decisions on the sales and customer acquisition for different time scales.
- Build predictive models using various machine learning tools to forecast the sales and the requirements for different products.
- Designed algorithm to track and detect customers prone to attrition based on the customer order patterns.
- Conducted a market basket analysis to uncover the associations between different products. Developed an algorithm to create combinations of products to ease the shopping.

Micron Technologies Inc

Solutions Engineer

Hyderabad, India

August 2020 – August 2021

- Applied data analytic and optimizations techniques in manufacturing to improve yield and reliability.
- Developed and Deployed scalable code into production using CI/CD tools.
- Responsible for investigating the failures and yield losses by analyzing the data for failure patterns.

Mahindra and Mahindra Ltd

Graduate Technical Intern

Chennai, India

May 2018 - June 2018

- Worked on intelligent farm devices in the Department of Sustainability, Innovation and Technology.
- Developed an intelligent precision vineyard sprayer for automatic detection of pests and the accurate spraying of pesticides.

Education

Indian Institute of Technology Madras

Master of Technology, GPA - 8.62/10

Chennai, India

2018 - 2020

Indian Institute of Technology Madras

Bachelor of Technology, GPA - 8.10/10

Chennai, India

2015 - 2020

Kerala State Board

Class 12th, GPA - 9.62/10

Kerala, India

2012 - 2014

Central Board of Secondary Education

Class 10th, GPA - 10/10

Kerala, India

2011 - 2012

Scholastic Achievements

- Scored **99 percentile** in the CAT 2021 and secured admission to the top business schools in India. 2021
- Awarded with Charpak Scholarship for Exchange program in France 2018
- All India Rank - 1820 in JEE 2015, taken by 1.3 million students (99.86 percentile) 2015
- Selected for INSPIRE Fellowship(99 percentile) for the excellence in class XII 2014

Research Projects

M.Tech Project

Guide: Prof. Ranjith Mohan

IIT Madras

July 2019 – June 2020

- Developed an autonomous quad-copter capable of navigating in GPS-denied environments.
- Implemented SLAM based algorithm that analyse the image data from a stereo-vision based setup to build a 3D representation of the surroundings.

Fire Fighting Drone

Guide: Prof. Ranjith Mohan

IIT Madras

April 2019 – June 2019

- Worked on an Autonomous Unmanned Aerial Vehicle with an onboard Raspberry Pi and Pixhawk as a flight controller for outdoor firefighting missions.
- Developed a GPS-based navigation system that enables the Aerial Vehicle to find the path and navigate through the given waypoints to the fire spot.

Relevant Courses and Skills

○ Courses

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|---------------------------|----------------------|--|
| ○ Artificial Intelligence | ○ Deep Learning | ○ Natural Language Processing |
| ○ Machine Learning | ○ Prompt Engineering | ○ Generative AI with Large Language Models |

○ Skills

- | | | |
|------------------|------------------------------|----------------------|
| ○ LoRA,Langchain | ○ Git, Azure | ○ TensorFlow,PyTorch |
| ○ Spacy,LayoutLM | ○ BERT,Sentence transformers | ○ Matplotlib,Plotly |