

CHANDANA SREE MALA

PHD RESEARCHER || DATA SCIENTIST

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PROFILE SUMMARY

Results-oriented Data scientist with around 2 years of industrial exposure in the fields of Data Science, Analytics, Visualisation, Computer vision, NLP, Machine learning and Deep learning. Proven track record of managing project works, developing innovative solutions and to communicate insights clearly to technical and non technical stakeholders in Data science sector. Researcher in the fields of NLP, LLMs, GenAI and XAI. Always curious to learn new things and looking for challenges opportunities that are inline with my expertise

WORK EXPERIENCE

Doctor of Philosophy in A.I Nov, 2023 – Present

Scuola Normale Superiore and University of Pisa, Italy

- Research work focus on Social AI projects covering major areas of NLP, Multimodal LLMs, Generative AI, Conversational XAI Public sectors.

Data science analyst Jan, 2023 – Apr, 2023

IQera Italia S.p.A, Rome, Italy

- Conducted descriptive and predictive statistical analysis on financial data for portfolio management.
- Analysed data of Non-performing loans (NPLs) and Unlikely to pay loans (UTPs) to forecast the recovery amounts and gross book values (GBVs) leveraging SOTA time series models ARIMA, SARIMAX, FB Prophet for credit risk management
- Developed M.L models for predicting the probabilities of credit risk and loan amount recovery.
- Collaborated with cross functional teams to enhance data accuracy and completeness, ensuring high-quality datasets for analysis

Tools :- Python, R – language, Pandas, Numpy, Scikit learn, Matplotlib, Seaborn, Huggingface, ggplot2, Docker, Git, MS SQL, MS Excel, Power BI, VS Code, R- studio, Microsoft Azure Devops.

Data Scientist Dec, 2021 – Jan, 2023

Pragma etimos, Aprilia, Italy

- Created ML and deep learning models for computer vision tasks, including image classification, object detection, and license plate recognition with YOLOv3,v4,v5 in Pytorch
- Built a web application for Sentiment analysis of Italian sentences, leveraging NLP models for entity recognitions along with BERT base hugging face transformer. Deployed the model with FastAPI Rest Framework.
- Utilized Power BI to develop KPIs and visualization of interactive finance dashboards and reports for effectively communicating insights to stakeholders.
- Developed RESTful APIs using Flask and Docker for deploying machine learning models.

Tools :- Python, Pandas, Numpy, Scikit learn, Open CV, Tensorflow, Keras, Pytorch, Hugging face, Selenium, Librosa, Matplotlib, Seaborn, Docker, Git, FastAPI, Flask, Pycharm, Jupyter, MS SQL, MS Excel, Power BI, HTML, CSS, Javascript.

Junior ML Engineer May, 2021 – Oct, 2021

Omdena, (Remote)

Helping the Energy Industry Achieve Digital Transformation Through AI Computer Vision:

- Implemented computer vision for object detection, OCR, and localization of symbols in Piping and Instrumentation Diagrams (P&IDs). Developed a system to associate tag numbers with symbols and map pipes and cables with LineID numbers.

Building a Chatbot with NLP:

- Built a chatbot for interacting with a food website Configuring my chatbot in Dialogflow and utilising FastAPI Rest frame work for backend operations and Mysql for database querying and data retrieval.

Tools :- Python, Pandas, Numpy, Scikit learn, Dialogflow, FastAPI, MySQL.

Junior Data Analyst Intern

Jan, 2019 – Jan, 2020

ARCA Dynamics, Rome, Italy

- Had the opportunity to work with the smart and dynamic team on star sensors data
- Actively involved in designing and developing an experimental test bed for hardware in the loop simulation of star trackers
- Analysed star sensors data and simulated the night sky images in the lab for magnitude, luminance, angular velocity calculations of the stars

Tools :- Python, Matlab, Pandas, Numpy, Matplotlib, Seaborn, Pycharm, Jupyter notebook.

EDUCATION

Master's in Aerospace Engineering

2017 – 2020

Sapienza University of Rome, Italy

Graduated with score 105/110 and awarded the Lazio Scholarship

Bachelor's in Mechanical Engineering

2013 – 2017

JNTUACEP, Pulivendula, India

Graduated with Grade of "First class with Distinction"

PROFESSIONAL SKILLS

Exploratory data analysis, Building BI Dashboards, Extract-Transform-Load pipelines, Feature engineering, Web scraping, Time series forecasting, NLP, Statistical analysis, Predictive modelling, Classification, Regression and Clustering, Deploying with Git and Docker, Building REST Frameworks.

GITHUB PROJECTS

- Designed a Chat App in streamlit for Multiple PDF Q&A generation using NLP and LLMs from LLama2, OpenAI and Hugging face APIs
 - End-to-End Budget optimization project using Marketing Mix Modelling methodology, model building, deployment using Docker containers and Flask API.
 - Electricity price prediction using XGB Regressor and Linear regression models
 - Global Food Prices Supply chain Time series forecasting pipeline with Arima, Facebook Prophet in R
 - Power BI project for Sales insights Data analysis with SQL.
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AWARDS AND CERTIFICATES

- Awarded as the Speaker and moderator in AI and Robotics International conference, Rome, Italy.
 - Awarded grant as a Research fellow at Sapienza University of Rome.
 - Certified Indian National Cadet Corp(NCC) Candidate
 - Certified National Social Service Scheme(NSS) Candidate
 - Certified in Python, Data science, ML, DL and NLP, PowerBI and Azure online courses.
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LANGUAGES

English	<div><div></div></div>
Italian	<div><div></div></div>
Telugu	<div><div></div></div>
Hindi	<div><div></div></div>