Narsingh Maurya *Data Scientist*

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Summary

I'm a Data Scientist with 5 years of experience, specializing in machine learning, deep learning, and NLP. Proficient in Python and libraries like Sklearn, Numpy, Pandas, and Matplotlib. My track record includes creating complex predictive models and AI-powered products across Finance, Manufacturing, and various other industries. I've leveraged tools such as Azure ML, Power BI, Dataiku, Thingworx, and SQL to develop data-driven solutions. With a full-stack skill set, I cover the entire software development life cycle and collaborate effectively to ensure timely project completion. My passion for innovation and continuous learning drives me to make a positive impact in the data science field.

Skills

Python
(*Pandas* | *Numpy* | *Matplotlib* | *Seaborn*)

Machine Learning
(*Linear Regression* | *Logistic Regression* | *Decision Tree* | *Random Forest*)

Natural Language Processing
(*Word2vec* | *GPT* | *Transformers* | *GenerativeAI*)

Computer Vision
(*Annotation* | *Image Processing* | *Object Detection*)

Statistics
(*Descriptive Statistics* | *Statistical Testing*)

Data Visualization
(*Excel* | *PowerBI* | *Tableau*)

Database
(*SQL* | *MongoDB*)

Web Framework
(*Flask* | *Streamlit*)

Professional Experience

2019/08 – present
Pune, India

Birlasoft Limited
Data Scientist

- Data Analysis: Conduct comprehensive data analysis to identify trends, patterns, and insights from large datasets, helping clients make informed decisions.
- Data Visualization: Create compelling data visualizations and dashboards to communicate findings effectively to technical and non-technical stakeholders.
- Model Development: Build and fine-tune machine learning models to solve specific business problems, including classification, regression, and recommendation systems.
- Client Engagement: Collaborate closely with clients to understand their data needs, provide data-driven recommendations, and deliver actionable insights.
- Continuous Learning: Stay updated with the latest advancements in data science and machine learning to ensure the use of cutting-edge techniques and tools in client projects.

2018/05 – 2018/10
Pune, India

KPIT Technologies
Trainee

- Conducting an in-depth assessment of existing applications and suggesting enhancements for an optimized IoT solution.
- Creating predictive models for anticipating machine component failures using machine learning libraries in R and Python.
- Implement and showcase the solution using Raspberry Pi and Arduino.

Projects

2023/08 – present **Extraction & Summarization of contract documents using GenAI**

- Designed and developed an AI system using GenAI, OpenAI's NLP framework, to automate contract document extraction, summarization, semantic search, and chatbot integration. Demonstrated technical expertise while enhancing business processes with advanced AI solutions.

2023/05 – 2023/07 **Parts Classification Project for Oil and Gas Industries**

- The objective is to extract entities of the descriptions created by workers and floor engineers. The model aims to categorize machine parts, facilitating ease of understanding and maintaining a clean database specific to the industry.

2022/03 – 2023/04 **Submission Prioritization of Insurance Applications**

- To enhance efficiency, we implemented automated scoring rules for insurance applications based on factors such as effective date and broker type. This automation significantly reduced manual effort in prioritizing insurance applications by 80%.

2021/02 – 2021/11 **Virtual Test Data Generator For Gas Turbine**

- As a Data Scientist at Cummins, I prepared and analyzed data for compressor and turbine components, used Python to fit data with physical equations, and generated virtual test data by interpolating and extrapolating. Validated the virtual data, created a Tkinter user interface for clients, and achieved a 50% reduction in time, cost, and effort compared to traditional testing and calibration methods for turbines and components.

2020/03 – 2020/12 **Prediction of Remaining Useful Life**

Prediction of RUL of Machine to Reduce the Un-planned Downtime.

- Reduced unplanned downtime by developing predictive maintenance solutions for four machines. Built machine learning models and Statistical Process Control rules on Thingworx Analytics to predict failures and detect faults in real-time. Achieved this by preparing and analyzing data in Python, validated models with historical data, and deployed them successfully in real scenarios.

2019/09 – 2020/03 **Anomaly Detection & Failure Prediction Module**

- Developed a wireless Sensor Module Unit for anomaly detection and failure prediction in machines. Designed a data acquisition device using Raspberry Pi 4 and Arduino, with Python-based machine learning models for anomaly detection and failure prediction. Incorporated an RF module for wireless, internet-independent operation. Skills used: Python, Raspberry Pi, Arduino.

Education

2017 – 2019 **M.Tech in Mining Machinery Engineering from IIT Dhanbad**

2012 – 2016 **B.Tech in Mechanical Engineering from SHUATS Allahabad**

Certifications

Machine Learning with ChatGPT: Image Classification Model from Coursera, 2023

Introduction to Generative AI from Coursera, 2023

Azure AI Fundamentals (AI-900)
Microsoft, 2022

Data Science for Engineers
NPTEL, 2017

Data Science with R
Simplify Analytics, 2017