Parth Maniar

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P SKILLS

Languages & Databases

Python, R, SAS, Scala, SQL, Java, JavaScript, MATLAB, NodeJS, C, Google BigQuery, MongoDB, Snowflake, Cassandra Machine Learning & Al Clustering, Modelling, Deep Learning, Regression, NLP, Computer Vision, LLMs, Statistics, Tensorflow, Scikit

Data & Analytics

Spark, IBM SPSS, Spotfire, Tableau, PowerBI, Neo4j, Oracle, Hadoop, Kafka, Qlik Sense, Google Analytics Development & Frameworks Git, Docker, Flask, NodeJs, Airflow, Kubernetes, Lambda, Looker, Azure, AWS, EC2

Mar 2023 - Present | Remote, USA

PROFESSIONAL EXPERIENCE

Software Engineer (Machine Learning), Research Foundation at SUNY 🛛

- Leveraged Large Language Models (LLMs) to develop customized natural language processing (NLP) solutions, on 500,000+ articles collected using web scraping & APIs resulting in a 40% reduction in data analysis time and improved accuracy in extracting information.
 Executed t-SNE & PCA models on complex chemical datasets, resulting in a 30% reduction in feature space while retaining 95% of the
- variance. This deployment on AWS (Amazon Web Services) enabled faster & more efficient data processing, enhancing performance.
 Pioneered an intuitive data visualization tool using Python & RESTful APIs that allowed non-technical stakeholders to interact with t-SNE and PCA outputs, leading to a more informed decision-making process.

Data Engineer, IQVIA 🛛

May 2022 - Dec 2022 | North Carolina, USA

Jan 2020 - Jul 2021 | Maharashtra, India

Nov 2019 - Jan 2020 | Maharashtra, India

- Led statistical analysis on clinical data, pinpointing factors for patient scheduling success & optimizing resource allocation.
- Compiled and mined various data sources, leading team efforts to enhance predictive model accuracy by 20%.
- Developed and maintained interactive Spotfire dashboards that visualized critical business metrics for executive decision-making, resulting in an average weekly time savings of 2 hours.
- Enhanced SQL queries, increasing productivity by 40% for faster data retrieval and heightened analysis efficiency.
- Collaborated to design & implement microservices-based pipeline, making ETL time 2x faster and enhancing data accuracy.

Software Engineer (Backend & Data Science), Tata Power

- Developed weather-based load forecasting models using neural networks, achieving 87% accuracy, and optimizing energy planning.
 Collaborated effectively with a cross-functional team comprising data engineers and product designers to strategically showcase essential key performance indicators (KPIs) for database performance, ensuring optimized data processing.
- Visualized 200 GB+ of time-series & geo data using Tableau & MongoDB, enabling impactful insights & driving data-driven decisions.
- Managed huge datasets with **MongoDB** (NoSQL), improving query performance by 40% for efficient data processing.
- Implemented "human in the loop" approach, reducing forecasting errors by 15% and enhancing decision-making.
- Designed robust APIs for model integration, resulting in a 20% improvement in scalability & providing user-friendly access to system.
- Automated end-to-end model training and deployment pipelines using **Apache Airflow**, reducing development cycles by an average of 2 weeks per model and **saving over \$15,000 annually** in labor costs while ensuring models are always up to date.

Founder, USAPA - Unified System for Agriculture Prediction using AI 🛛 Feb 2020 – Jan 2021 | Maharashtra, India

- Designed & developed AI platform using ML algorithms for real-time crop yield prediction, including weather patterns, soil quality, and historical crop performance, resulting in an 85% accuracy in yield predictions.
- Incorporated district-specific predictions, aiding targeted resource allocation & contributing to 15% boost in local agricultural yield.
- Secured a **\$2,500** grant to develop initial proof-of-concept & fund cloud infrastructure costs, validating the commercial potential.

Software Engineer (ML), India Meteorological Department 🛛

- Spearheaded the development of a cutting-edge weather forecasting system by integrating machine learning algorithms and historical meteorological data, improved **18.5% forecast accuracy** over existing models.
- Leveraged data preprocessing to clean & optimize extensive weather data, cutting anomalies by 40% & improving forecast reliability.

Section Education

Master of Science, Data Science, University at Buffalo	Aug 2021 - Feb 2023 Buffalo, USA
Bachelor of Engineering, Information Technology, Mumbai University	Aug 2017 – Jul 2021 Maharashtra, India

PROJECTS

Demand Forecasting For Online Bike Rentals Leveraging Geolocation Data

• Implemented geolocation-driven demand forecasting for online bike rentals and reducing inventory costs by 25%.

Data Exploration on Brazilian Website Olist Sales Data 🗷

• Built data analytics solution for Olist, empowering data scientists & product managers to extract insights & enhance business operations.

Lecture Notes Classification Using Deep Learning 🗷

• Created deep learning model for image classification, achieving 90% accuracy in automatically categorizing images as notes / not notes.

Property Investment Assessment using Machine Learning Models 🛛

• Implemented property investment assessment using machine learning, achieving the accuracy of 87% in estimating house sale prices.