Atharva Hatekar

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SUMMARY:

Motivated Data Scientist with 2+ years of industry experience in data analytics, machine learning, and software development. Proficient in Python, SQL, and BI tools, with expertise in developing ML-driven solutions, specializing in time series forecasting and LLM applications. Proficient in end-to-end ML pipeline development from data collection to deployment using modern MLOps practices, and leveraging data science techniques to address real-world challenges. Passionate about continuous learning and innovation.

WORK EXPERIENCE:

Data Science Intern
Metso, Frankfurt, Germany
10/ 2024 - Present

- Implemented **time series forecasting** for **predictive maintenance,** integrating solutions into a **CI/CD pipeline**.
- Deployed a **gRPC backend** to retrieve real-time plant data from ACT software, enabling **outlier detection** and analysis.
- Collaborated with the R&D team to develop **rule-based anomaly detection**, utilizing **MLOps** frameworks like **MLflow** for robust model deployment, monitoring, and performance optimization.

Data Analyst
Dreamwarez, Pune, India
08/ 2021 - 02/ 2023

- Designed **BI dashboards** to visualize trends and created measures for **KPIs** by using **DAX**, Enabled customers to make crucial decisions that significantly boosted their business performance.
- Utilized **Pandas**, **SQL** to perform data cleaning and transformation, extracting actionable insights to support decision-making.
- Leveraged **machine learning** and **exploratory data analysis** on complex datasets for advanced data analytics.

Software Developer Intern
Dreamwarez, Pune, India
02/ 2021 - 07/ 2021

- Developed web applications, improving user experience by integrating responsive designs and streamlined functionality.
- Collaborated within an **agile development** team to implement new features, debug issues, and optimize existing code, ensuring **timely project delivery**.
- Conducted validations on web forms, helps to enhance data accuracy and improving overall system reliability.

EDUCATION:

Masters in Artificial Intelligence
Brandenburgische Technische Universität (BTU), Cottbus, Germany
04/ 2023 - Present

Key Subjects : Data Warehouse • Mathematical Statistics • Data Mining • Information Retrieval • Mathematics in AI • Image Processing and Computer Vision

Bachelors in Computer Science and Engineering
Lovely Professional University(LPU), Jalandhar, India
06/ 2017 - 06/ 2021

Key Subjects : Data Structures and Algorithms • Programming Languages • Engineering Mathematics • DBMS • Software Engineering • Web Programming

SKILLS:

- **Programming Languages :** Python • R • SQL
- **Visualization Tools :** Tableau • PowerBI • Matplotlib
- **Machine Learning :** scikit-learn • TensorFlow • keras
- **AI Frameworks** : LangChain • LLM APIs • ChromaDB
- **NLP Tools :** spaCy • NLTK • Botpress
- **Database :** MySQL • PostgreSQL • NoSQL
- **Dev Environments:** VS-Code • GoogleColab
- **Other Tools :** Git • Streamlit • FastAPI • MS Office

PUBLICATION:

Passenger Security Using Facial Emotion Recognition System
<u>Journal:</u> IJARESM, Impact Factor: 7.42

09/ 2022

- Developed a real-time Facial Emotion Recognition System using **Deep Convolutional Neural Networks (DCNN)** to detect emotions such as fear, happiness, and anger, with applications in enhancing passenger security in taxi services.
- Utilized image processing techniques using **Python** and **OpenCV**, leveraging the CK+ dataset for training and evaluation to achieve high accuracy in emotion recognition.

PROJECTS:

Equity News Researcher Tool

07/ 2024 - 07/ 2024

- Developed a web application that assists equity research analysts by providing relevant news articles based on user queries, leveraging **LangChain** for NLP workflows like chaining multiple prompts and **LLM APIs** to use pre-trained LLM models.
- Integrated **FAISS** for efficient similarity search on precomputed news embeddings and built user interface using Streamlit for interaction to gain insights from news data.

Customer Churn Prediction

01/ 2024 - 01/ 2024

- Defined problem objectives, gathered data, performed **Exploratory Data Analysis** by using **Seaborn**, preprocessed data by using **Pandas**, leveraged **statistical analysis**, built and tested various **predictive models** for prediction and analysis.
- Utilized various machine learning model from **scikit-learn** to forecast customer churn in subscription-based businesses, achieving a prediction accuracy of 95% .

T20 World-Cup Analytics Pro

03/ 2024 - 03/ 2024

- Developed an **PowerBI** dashboard for analyzing T20 World Cup cricket data, incorporating valuable insights.
- Utilized **web scraping** via **Bright Data** to gather a significant dataset exceeding 10,000 entries from ESPN Cricinfo.
- Employed **Python** and **Pandas** to clean and standardize the collected data, helps to reduce discrepancies.
- Enhanced the dashboard with analytical measures using **DAX**, helps to uncover the insights.

Social Media Sentiment Analysis

06/ 2023 - 07/ 2023

- Data scraped from social media like Twitter, using **Selenium**, **BeautifulSoap**.
- Vectorized the data using **Word2Vec**, Used **spaCy** for data cleaning and created a customized **word embedding dictionary** using **FastText**.
- Trained machine learning models on various classifiers and achieved an accuracy of 92.5% on the **Naive Bayes classifier**.

CERTIFICATIONS:

Machine Learning Specialization
<u>Certificate - By **DeepLearning.AI** and **Stanford University**</u>

07/ 2024 - 09/ 2024

Data Science & Machine Learning
<u>Certificate of Excellence **-** By **Coding Ninja**</u>

10/ 2023 - 06/ 2024

Data Structures & Algorithms in Python
<u>Certificate of Excellence **-** By **Coding Ninja**</u>

06/ 2023 - 10/ 2023

LANGUAGES:

- English (Native Speaker, C1)
- German (Elementary Proficiency, A2)
- Hindi (Mother Tongue)
- Marathi (Mother Tongue)

ACHIEVEMENTS & HOBBIES:

- **Academic Achievements:** Secured 2123 rank / 157,000 students in GATE national graduate exam held in Feb/ 2023.
- **Sports Achievements**: Secured gold medals in both American Football & Rugby at the National Championships.
- **Music Enthusiast**: Enjoy singing and playing musical instruments (guitar & drums). Weekend performer at events and gatherings.