

# Atharva Hatekar

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## SUMMARY:

**Aspiring Data Scientist** with a strong academic foundation and hands-on industry experience in data analytics, machine learning and statistical modeling. Skilled in Python, SQL, Tableau, PowerBI, and advanced data handling, visualization techniques. Demonstrated ability to transform complex datasets into actionable insights that drive business growth and enhance decision-making. Proven track record in deploying predictive models, conversational AI solutions, and creating interactive BI dashboards. Committed to continuous learning and leveraging data science to solve real world problems.

## WORK EXPERIENCE:

### R&D Intern for Digital Solutions

10/ 2024 - Present

Metso, Frankfurt, Germany

- Developed and deployed **gRPC-based backend** for real-time plant data processing, enhancing ACT system efficiency.
- Evaluated multiple **forecasting ML models**, including **ARIMA / SARIMA**, achieving superior results with the **Prophet** model.
- Designed UI for **predictive maintenance**, enabling **seasonal trend analysis**, reducing **unplanned maintenance events by 20%**.
- Implemented **rule-based anomaly detection** to handle outliers for plant-specific data.

### Data Analyst

02/ 2022 - 01/ 2023

Dreamwarez, Pune, India

- Designed **interactive BI dashboards** collaborating with UI/UX team to visualize **KPIs**, leading to 42% improvement in decision-making processes.
- Utilized **Python, SQL**, and **Power BI** to generate insightful reports and data-driven recommendations.
- Leveraged **statistical models** and **supervised learning models** on complex datasets for advanced analytics.

### Software Developer Intern

06/ 2021 - 01/ 2022

Dreamwarez, Pune, India

- 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 thorough validations on web forms, enhancing data accuracy and improving overall system reliability by identifying and resolving input discrepancies.

## EDUCATION:

### Masters in Artificial Intelligence

04/ 2023 - Present

Brandenburgische Technische Universität (BTU), Cottbus, Germany

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

### Bachelors in Computer Science and Engineering

06/ 2017 - 06/ 2021

Lovely Professional University(LPU), Jalandhar, India

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

## SKILLS:

- **Programming Languages** : Python • SQL • C++
- **Visualization Tools** : Tableau • PowerBI • Seaborn
- **NLP Tools** : spaCy • NLTK
- **Machine Learning** : scikit-learn • TensorFlow • keras
- **Database** : MySQL • PostgreSQL
- **Dev Environments**: Jupyter Notebook • VS-Code • GoogleColab • Azure ML Studio
- **Other Tools** : Git • FastAPI • MS Office • Canva

## PUBLICATION:

### Passenger Security Using Facial Emotion Recognition System

09/ 2022

Journal: IJARESM, Impact Factor: 7.42

- Developed a facial emotion recognition system utilizing **DCNN** achieving a **90% accuracy rate**.
- Classify facial expressions into Happy, Sad, Angry, Fear, Surprise, Disgust, and Neutral.
- Emphasized the importance of non-verbal communication and safety in passenger transportation, resulting in improved safety incident response times.

## PERSONAL PROJECTS:

### Conversational AI ChatBOT

04/ 2024 - 04/ 2024

- Designed **conversational flow** with **DialogFlow**, learned **NLP techniques** in depth, resulting in an improvement in user interaction efficiency and prompt understanding.
- Developed a Python backend using **FastAPI**, reducing request handling time by 30% and enabling real-time responses. Integrated **MySQL** for order management and tracking, resulting in enhanced chatbot functionality.

### 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 **predictive models** for prediction and analysis.
- Developed a machine learning model by using **scikit-learn** to forecast customer churn in subscription-based businesses, achieving a prediction accuracy of 85% .

### 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**, **BeautifulSoup**.
- 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

07/ 2024 - 09/ 2024

Certificate - By DeepLearning.AI and Stanford University

### Data Science & Machine Learning

10/ 2023 - 06/ 2024

Certificate of Excellence - By Coding Ninja

### Data Structures & Algorithms in Python

06/ 2023 - 10/ 2023

Certificate of Excellence - By Coding Ninja

## LANGUAGES:

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

## FUN FACTS ABOUT ME:

- Gold Medalist in both American Football and Rugby at the National Championships!
- Culinary enthusiast, constantly exploring diverse cuisines and experimenting with YouTube recipes.
- Passionate about singing & playing musical instruments(guitar & drums). Regularly perform at events & gatherings.