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Date of Birth: 05/15/1996

PROFILE

Experienced AI Engineer / Data Scientist / Machine Learning Engineer / Data Analyst with over 4 years of experience applying machine learning, NLP, and data analytics to real-world problems.

- Master's degree in Information and Electronic Engineering
- Proven expertise in data analysis, MLOps, real-time data processing, recommender systems, and conversational AI
- Passionate about designing scalable ML architectures, integrating CI/CD pipelines, and leveraging data for optimized business decisions

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PROFESSIONAL EXPERIENCE

Albert Handtmann Maschinenfabrik GmbH & Co. KG (Germany)
Development Engineer (AI / ML / Data Scientist / Data Analyst)
Jun 2023 – Present

- **MLOps & CI/CD:** Built infrastructure for automated training and deployment pipelines using Docker and Kubernetes, enhancing model update speed.
- **NLP & LLMs:** Developed AI-powered chatbots using Azure OpenAI and GPT models for real-time machine data analysis, reducing manual interventions by 30%.
- **Real-Time Monitoring:** Integrated AI into production processes for anomaly detection (speed, pressure, KPI values) and built live dashboards (Grafana, Power BI).
- **Data Pipelines:** Designed and maintained ETL processes with Python and SQL, increasing data accessibility by over 40%.

Albert Handtmann Maschinenfabrik GmbH & Co. KG (Germany)
Master Thesis – AI-based Process Monitoring System for Food Industry
Nov 2022 – May 2023

- Developed an AI-driven system for monitoring filling machines with 95% accuracy in weight measurement and process evaluation.
- Deployed scalable ML solutions using Kubernetes and Docker with automated CI/CD pipelines.
- Integrated real-time dashboards for KPI visualization using InfluxDB and Grafana.

Keysight Technologies GmbH, Böblingen (Germany)
Intern – Data Scientist (Intern Tech II)
Mar 2022 – Jul 2022

- Created an NLP-based tool for analyzing YouTube data to drive marketing insights, improving marketing effectiveness by 20%.
- Developed automated ML pipelines for efficient processing of large datasets and feature engineering.
- Built regression models and dashboards to support data-driven decision-making.

Magnificent Data GmbH, Schönefeld (Germany)
Intern – Data Analyst (NLP)
Oct 2021 – Jan 2022

- Developed conversational AI chatbots using transformer models (e.g., BERT) and classic NLP frameworks (NLTK, spaCy).
- Automated data extraction and preprocessing workflows to enhance data analysis efficiency.
- Delivered sentiment analysis and market insights through automated reporting solutions.

EDUCATION

Hochschule Wismar University of Applied Sciences, Wismar (Germany)
Master in Information and Electronic Engineering
Oct 2019 – May 2023

- Focus: Data analysis, machine learning, and automation technology using Python for advanced analytics and visualization.

University of Pune, Nashik (India)
Bachelor in Mechanical Engineering (B.E.)
Jul 2015 – Jun 2018

- Focus: Quality management, statistical techniques, and machine design.
- Thesis: FMEA-based design of a three-wheeler vehicle.

K. K. Wagh Polytechnic, Nashik (India)
Diploma in Mechanical Engineering
Jun 2012 – May 2015

- Focus: Industrial training, applied mathematics, and communication skills.

TECHNICAL SKILLS

- **Languages:** English (C1), German (B1.1 Learning)
- **Programming:** Python, SQL, HTML, CSS, MATLAB
- **Data Science & ML:** Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch, NLTK, spaCy, OpenCV
- **Data Analysis & MLOps:** ETL pipelines, feature engineering, CI/CD (Docker, Kubernetes)
- **Visualization:** Matplotlib, Seaborn, Power BI, Grafana, Tableau
- **Cloud Platforms:** Microsoft Azure, Azure OpenAI, basic AWS
- **Databases:** MySQL, InfluxDB, RDBMS
- **Version Control & Project Management:** Git, GitHub, Microsoft Planner

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PROJECTS

1. **Property Price Prediction**
   - Developed a model using GridSearchCV for accurate real-estate price prediction.
   - [GitHub Link](#)
2. **Credit Card Fraud Detection**
   - Created a classification model to detect fraudulent credit card transactions.
   - [GitHub Link](#)
3. **Olympic Games Data Analysis**
   - Conducted exploratory data analysis and visualizations of historical Olympic datasets.
   - [GitHub Link](#)

4. **Predictive Maintenance Solution**
   - An end-to-end predictive maintenance solution harnessing sensor data and machine learning to forecast jet engine health and optimize maintenance schedules
   - [GitHub Link](#)
5. **BGL Log classification with NLP**
   - A comprehensive solution that transforms raw BGL logs into actionable insights through advanced NLP, robust API deployment, and interactive PowerBI dashboards
   - [GitHub Link](#)

CERTIFICATIONS

- **IBM:** Data Analysis with Python
- **Coursera:** Introduction to Data Science with Python
- **Coursera:** Python Data Structures

SOFT SKILLS

- Teamwork & Collaboration
- Adaptability & Continuous Learning
- Effective Communication
- Data-Driven Problem Solving