

Suprabhat

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Profile

Curious and pragmatic Data Scientist with 3+ years of hands-on experience in predictive modeling, data pipelines, full-stack development, and machine learning deployments. Skilled in working with large-scale, real-world datasets and solving complex problems with Python, SQL, and open-source tools. Experienced in cross-functional teams using agile methodologies. Passionate about creating data-driven solutions that generate business impact, with a strong foundation in statistics, model validation, and scalable ML systems.

EDUCATION

- 10.2021 - 03.2025 **M. Sc. in Computer Science** 📍 Siegen, Germany
University of Siegen, Specialization: Embedded Systems
Courses: Embedded Systems, Recent Advances in Machine Learning, Data Science Seminar, Big Data and Cloud Computing (Erasmus Semester in Rome)
Thesis: Analysis and Prediction of Weather Conditions on Industrial Facilities Using Various AI Algorithms 📄
- 07.2015 - 05.2019 **B. Tech. in Electronics & Communication** 📍 Kochi, India
Cochin University of Science and Technology

WORK EXPERIENCE

- 11.2023 - 09.2024 **FOXBYTE(csi verwaltungs GmbH)** 📍 Neckarsulm, Germany
Master Thesis Student(Supervisor: Prof. Kristof Van Learhoven and Dr. Stefan Herrmann) (📄)
- Developed a data processing and analysis procedure for environmental data captured by the datalogger.
 - Performed rigorous exploratory data analysis (EDA) and statistical evaluations to compare the performance of predictive ML models.
 - Conducted experiments comparing multiple ML models (LSTM, ARIMA, SARIMAX) to optimize accuracy, performing statistical significance tests to validate model improvements.
 - Predicted the impact of the oven atmosphere on other industrial facilities (energy consumption) by using time series modeling techniques to forecast equipment failure and detect anomalies.
- 05.2024 - 02.2025 **Chair of Economics** 📍 Siegen, Germany
Student Assistant in Full-Stack Web Development
- Maintained and developed new Chair of Economics components for Bachelor's and Master's degree websites, including a new site for RESME (New Data for Regional Economic and SME Research) based on Typescript. Visit(resme.org) for more information.
 - Developed scalable frontend and backend components for RESME using React, TypeScript, GraphQL (Apollo), aligning with modern server-side rendering (Next.js).
- 11.2023 - 02.2024 **Chair of Ubiquitous Systems Group** 📍 Siegen, Germany
Student Assistant in Machine Learning (Supervisor: Prof. Kristof Van Learhoven)
- Collected and analyzed control room data from an HCI perspective and worked with Wearables and Examining Personal Technology Adoption in Contemporary Control Rooms.
 - Supported human-computer interaction studies through advanced DL-based image recognition.

- 04.2022 - 08.2022

Exactag GmbH

Working student in Software Management

Düsseldorf, Germany

- Converted Cypress UI tests to Playwright, developed end-to-end tests, and worked on automated testing for 'Attribution Academy,' a data-driven marketing analytics platform focusing on user attribution and marketing optimization.
 - Familiar with CircleCI for continuous integration workflows. Collaborated in an Agile environment, applying TDD and containerization (Docker) to ensure robust deployments.
- 07.2019 - 09.2021

IQVIA

Software Developer

Kochi, India

- Built, tested, and maintained scalable Salesforce UI components on a product known as 'Study Hub' where Patients and Clinical Trial Companies are engaging for different Vaccination and Drug Trials.
 - Reduced manual QA time by 35% through automated regression pipelines using Selenium-like framework & GitHub Actions.
 - Organised scrum calls and sprint planning meetings for product releases.
 - Performed POC on Root Cause analysis of File management through Anomaly Detection by implementing Various machine learning algorithms.

PROJECTS

- 02.2023 - 07.2023

FARMIT

Master Project Work, University of Siegen

- Engineered a real-time IoT data pipeline for agricultural sensors; used Django with REST API's and LSTM for weather predictions, and was responsible for integration of the AI model into the web application, making it a full-stack AI deployment.
 - Used YOLOv5 for model training and prediction of blueberry detection in a live farm field in Portugal; collaborated with an international team to deliver AI-based solutions with a fully integrated web-based detection interface for agricultural robotics.
- 04.2020

Additional Projects

Open App Practitioner: Collaborated with a blockchain startup community to pitch ideas on open app ecosystems in India. As a part of 100 days of code, I pitched my ideas for the platform economies and how we can leverage the power of open apps to drive new age economies.

AWARDS & ACHIEVEMENTS

- Awarded an NTSE scholarship of 600 USD yearly for 6 years in the top 100,000 students conducted by NCERT.
- Got 2nd Prize for presenting a blockchain-based product idea to the Canada OAN team and receiving a grant of 2500 USD as 2nd prize.
- Awarded IQVIA Silver Award for contributions to Johnson&Johnson Vaccine Studies based on Salesforce.

CERTIFICATIONS

- AWS Academy Graduate - AWS Academy Cloud Foundations (Certificate).
- Neural Networks and Deep Learning, Coursera (Certificate).

SKILLS

Programming:	Python, JavaScript, Typescript, C/C++, Next.js, React, Kotlin, Selenium
ML Frameworks:	PyTorch, Tensorflow, Keras, OpenCV, Transformers, Scikit-learn, Numpy, Matplotlib
Web Technology:	HTML/CSS, GraphQL (Apollo), Tailwind CSS (familiar), Vue, Flask, Django, SQL, MongoDB, GraphQL, PostgreSQL
Infrastructure:	Docker, Terraform (basic), Kubernetes (basic), ArgoCD (learning), CI/CD (GitHub Actions, CircleCI), Linux, Azure, Unit Testing (Jest, PyUnit), Apache Spark (learning), Databricks (learning), A/B testing (basic knowledge)
Software Tools:	JIRA, HPALM, Confluence, MATLAB, Agile/Scrum Tools, OpenAI Developer / LangChain
Languages:	German - B1-B2(learning), English - C1