

FULLSTACK DEVELOPER

SUPRABHAT SUPRABHAT

+49 15752425491

suprabhat.supra@gmail.com

Engsbachstrasse 56 ■ 57076 Siegen

PERSONAL DATA

Birthday 03.10.1997
Birthplace Patna, India
Nationality Indian
Work Permit Available
LinkedIn [in/suprabhat](https://www.linkedin.com/in/suprabhat)

Full stack AI engineer with proven experience in building scalable, compliance ready web applications using React, TypeScript, PostgreSQL, and containerized services, combined with strong AI/ML expertise in PyTorch, LSTM, and YOLOv5. Skilled in Node.js compatible backend development, CI/CD, and cross functional collaboration, with a track record of delivering secure, product driven solutions in regulated and data intensive environments.



EDUCATION

10/ 2021-03/2025 | Masters in Sciences
University of Siegen, Siegen, Germany

- Focus:** Computer Science (Embedded Systems)

2015 - 2019 | Bachelors of Technology
Cochin University of Science and Technology, Kochi, India

- Focus:** Electronics and Communication Engineering

TECHNICAL SKILLS

- Full-Stack AI Product Integration (React, TypeScript, REST/GraphQL APIs, PostgreSQL, Next.js, Django/Flask)
- API AI & Machine Learning Implementation (LSTM, ARIMA, YOLOv5, Transformers, PyTorch, Scikit-learn, Keras)
- Backend Data Architecture (PostgreSQL, REST APIs, database management, containerized services, cloud-native solutions)
- Cloud Computing & DevOps (Exposure to AWS, CI/CD pipelines, Docker, serverless principles, CircleCI, automation tools)
- End-to-End ML Pipeline Engineering (Data ingestion, anomaly detection, explainability)
- Testing & Quality Assurance (Automated UI testing with Cypress/Playwright, regression libraries)
- Cross-Functional and Interdisciplinary Collaboration

RELEVANT EXPERIENCE

Since 01/2025 | German Course (B1 in progress)

05/2024 – 02/2025 | Chair of Economics, University of Siegen, Siegen (Germany)
Student Assistant – Full-Stack Web Development

- Developed scalable web components using React, TypeScript, and GraphQL for academic platforms, aligning frontend development with product usability and performance standards.
- Designed and maintained backend logic in PostgreSQL, ensuring robust data management, security, and compliance for web applications.
- Integrated Next.js for server-side rendering to improve application efficiency and accessibility while optimizing SEO.
- Collaborated in cross-functional teams, actively participating in software design discussions and iterative product delivery cycles.
- Ensured responsive and accessible UI implementation by translating designs into semantic HTML and modern CSS.

11/2023 – 09/2024 | FOXBYTE (CSI Verwaltungs GmbH), Neckarsulm (Germany)

Master Thesis- Data Science and Software Development

- Built and evaluated AI/ML models (LSTM, ARIMA, SARIMAX) to drive predictive analytics for industrial energy consumption, applying statistical rigor to model performance and data noise challenges.
- Utilized PyTorch and Keras for custom model training, focusing on real-world deployment and explainability in infrastructure environments.
- Delivered actionable data visualizations and anomaly detection insights to inform decision-making and operational safety.
- Engineered and validated end-to-end ML pipelines, aligning with best practices in data security and compliance.

04/ 2022 – 08/ 2022 | Exactag GmbH, Düsseldorf (Germany)
Working Student- Software Management

- Migrated UI test suites from Cypress to Playwright, enhancing automated QA for scalable, data-driven web products.
- Integrated automated testing with CI/CD pipelines (CircleCI), supporting high-frequency and reliable deployments.

STRENGTHS

- Attention to Detail
- Proactivity & Ownership
- Problem-Solving
- Team Collaboration
- Communication
- Curiosity & Growth Mindset
- Adaptability & Learning Agility
- Strong Written and Verbal Communication

TOOLS & UTILITIES

- MS Excel (for exploratory analysis)
- VS Code
- Git/ Github
- Jupyter
- Agile/Scrum
- SQL (PostgreSQL, NoSQL)
- Power BI (basic)

LANGUAGES

English	██████████
German (B1)	██████
Hindi	██████████

REFERENCES

Prof. Dr. Michael Moeller
Computer Vision Group
University of Siegen
E: michael.moeller@uni-siegen.de

Dr.-Ing. Stefan Herrmann
Leiter/Head
Business Unit FOXBYTE- csi Verwaltungs GmbH
E: Stefan.Herrmann@csi-online.de

My Motto:
Learn fast. Solve real problems. Keep moving forward.

- Improved software quality standards through rigorous test documentation and regression library maintenance.
- Supported cloud-native development environments, contributing to robust, production-ready solutions.

07/ 2019 – 09/ 2021 | IQVIA, Kochi (India)
Software Developer

- Developed components for an enterprise-grade clinical trial platform, contributing to secure and compliant software in highly regulated environments.
- Built Python-based test automation tools, reducing regression cycles and increasing deployment velocity in cloud-based solutions.
- Led a proof-of-concept for anomaly detection using Scikit-learn, driving innovation in data pipeline reliability.
- Collaborated in global, cross-functional scrum teams, providing input on sprint planning and architecture decisions.
- Created and maintained documentation for release pipelines under strict compliance and quality standards.

KEY PROJECTS

02/ 2023 – 07/ 2023 | University of Siegen, Siegen (Germany)
Machine Learning Project – FARMIT (Master Project)

- Designed and implemented full-stack web applications with React (frontend) and Django/Flask REST APIs (backend), integrating PostgreSQL and containerized services to support scalable, maintainable architectures.
- Designed and deployed AI-powered features, such as real-time sensor monitoring and YOLOv5 object detection dashboards, to address real-world operational and safety concerns.
- Built modular data ingestion pipelines for IoT devices, optimizing latency and reliability in production-like settings.
- Participated in cross-disciplinary teams, contributing to architectural decisions and feature definitions for research-based products.
- Implemented deep learning models for image classification using PyTorch and OpenCV, supporting adaptive user interfaces and large-scale data processing.
- Maintained rigorous code documentation and testing standards aligned with compliance and security guidelines.

11/ 2023 – 02/ 2024 | Ubiquitous Systems Group, Univ. of Siegen
Siegen (Germany)
Student Research Assistant

- Implemented DL-based image classification tasks using PyTorch and OpenCV.
- Participated in preprocessing, labeling, and cleaning of large-scale semi-structured video datasets.

CURRENT LANDSCAPE

- **Learning German (Goethe Institution - Level B1 in Progress):** Building language proficiency to better integrate and communicate within an international environment.
- **Advancing Technical Skills in LLM, NLP and Prompt Engineering:** Making a project “Extracting entities from invoices using a fine-tuned BERT model” to learn new age skills.
- Learning Transformers (HuggingFace), Attention Mechanisms, Embedding Models and integration to the web application.



Siegen, 15.08.2025

Note: I am eligible to work in Germany, willing to relocate and available to start immediately at your convenience.