BHANU PRATAP SINGH

AI Developer

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bhanurana430@gmail.com

LinkedIn | GitHub

Portfolio Website

Bahnhofstraße 21, 94469, Deggendorf

EDUCATION

B.Sc. Artificial Intelligence

Technische Hochschule Deggendorf

Schwerpunkt: AI, SWE, CSE, Maths, Statistics
Notendurchschnitt: 2.1

2022 - 2026

LANGUAGE

English : Fließend (C1)

German : Grundkenntnisse (B1)

SKILLS

PROGRAMMING
Python, JavaScript, SQL

FRAMEWORKS & AI
Pytorch, Scikit-learn, Hugging face, Langchain, Ollama, RAG, Agentic Workflows, OpenCV, YOLO, Transfer Learning

BACKEND, APIS & DB
FastAPI, REST, FHIR, Supabase, PostgreSQL, ChromaDB

DEVOPS & INFRA
Docker, Git, Github, Oracle Cloud, SSH, Linux

WORK EXPERIENCE

Studentische Hilfskraft — 04.2025 - Present

VR-MTB - R&D Project | Technische Hochschule Deggendorf

- Solely designed and developed a full-stack clinical web platform (Dockerized) for virtual tumor board sessions, integrating EHR systems via FHIR and implementing secure authentication.
- Built CDSS/Scribe tools using RAG pipelines and agentic LLM workflows under strict data-protection constraints .
- Co-authored research paper on AI applications in oncology multidisciplinary tumor boards (MTBs).

TALKS AND ACTIVITES

Guest Lecture – Deep Learning & LLMs in Healthcare

DigiHealth Day 2025 – Erasmus+ Blended Intensive Programme THD (ECRI)

Delivered a 6-hour lecture on Deep Learning fundamentals, CNNs, LLMs, RAG and clinical applications(agentic AI) to ~60 international Master's students

10.11.2026

PROJECTS

NeonEdge – No-Code Algorithmic-Trading Platform

Technical Co-Founder | Digital Danube Accelerator | Cohort 3

Selected for EU Digital Danube Accelerator (Cohort 3) — built full-stack AI trading platform with automated backtesting & ML optimization as Technical Co-Founder

09.2025 - 01.2026 View Details

AI Compliance Tool @ THD, Deggendorf

Rohde & Schwarz, München (Team of 6) - Industry collaboration

RAG-based prototype to auto-extract & structure legal obligations from EU/German regulatory documents — delivered to Rohde & Schwarz for evaluation

10.2025 - 01.2026 View Details

Sewer Pipe Damage Quantification @ THD, Deggendorf

eSigma/e.SIC, München (Team of 13) - Industry collaboration

CV/AI framework to measure physical dimensions of 10 sewer damage types (DIN/EN standard); owned YOLOv11 pipeline achieving 89.6% detection rate & ±2mm accuracy

04.2025 - 07.2025 View Details

Sentient – Algorithmic-Trading Research Platform

Personal project | Deep reinforcement learning for trading

Explored BTC-USD automated trading using Random Forest, bidirectional LSTM, VectorBT backtesting, and a Dueling DQN reinforcement learning agent

09.2024 - 12.2024 View Details