Harshil Pinal Patel

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Education

04/2024 - Present

Masters in Artificial Intelligence and Robotics (M.Sc.)
Hochschule Hof, 95028 Hof

- **Generative Adversarial Networks (GANs):** Working on Autoencoders, GANs, Diffusions Models, Deep Fakes, Text-Generation, LLMs und AI-Music-Generation.
- Applied Deep Learning
- Intelligent Robotics
- New Technologies in Computer Science.
- New Technologies in AI and Robotics.
- Industry 4.0 / Data Management.
- Advanced Architectures in AI.
- AI Project.
- Predictive Maintenance and Condition Monitoring.
- **Actual German Grade: 2.6**

09/2023

React - The Complete Guide 2025 (incl. Next.js, Redux)
Udemy (Online)

- Successful completion of the course **React - The Complete Guide 2025 (incl. Next.js, Redux)** on October 4, 2023, taught by Academind by Maximilian Schwarzmüller, Maximilian Schwarzmüller on Udemy.

04/2017 - 07/2021

Bachelor of Engineering in Computer Science and Engineering
Parul Institute of Technology, India.

- **Relevant Subjects:** Grundlagen der Elektrotechnik, Grundlagen der Elektronik, Digitale und Logik-Design, Mikroprozessoren.

Professional experience

7/2022 – 8/2023

Junior Web Developer and Internship
HP Infosys PVT LTD., Vadodara, India.

- Support the web development team with website design and development (React/HTML/CSS/Javascript).
- Support with front-end development and maintenance (React).
- Deployment of the website on cloud platforms (Oracle Cloud Infrastructure).
- Configuration and troubleshooting of cloud servers (Linux) for website hosting.
- Support with testing front-end development and converting media to compatible web formats.

Knowledge and skills

Programming Languages:

- JavaScript, Java, C++, Python (Good Knowledge), HTML, CSS.

Libraries & Frameworks:	• Node.js, React, TensorFlow, PyTorch, scikit-learn, OpenCV, Transformers, GANs, CNNs.
Focus and expertise:	• Artificial Intelligence & Machine Learning. • Natural Language Processing (NLP). • Predictive Maintenance. • Image Processing & Computer Vision. • Deep Learning Models & Architectures. • Robotic Systems (according to the AI & Robotics degree program). • Data Analysis & Modeling.
OS & Tools:	• Linux (including server configuration), Docker, Git, MS Office.
Soft Skills:	• Strong problem-solving skills. • Effective time management. • Structured documentation. • Team-oriented communication. • Independent and goal-oriented working style.
Sprachkenntnisse	• English (Fluent) • Deutsch (B1.2, Mit Zertifikat)

Projects

2024	**Streaming TTS on Embedded Devices (Master)** • Development of a text-to-speech system for embedded devices with a focus on efficiency and real-time capability.
2024-2025	**Leveraging EEG and EMG Signals for Real-Time Applications (Masters).** • Analysis and integration of neurophysiological (EMG/EEG) data for control and interaction systems in real time.
2024-2025	**Emotion Recognition Using Facial Features and EEG (Masters).** • Multimodal emotion recognition for applications in robotics, marketing, education and entertainment.
2020	**Traffic Sign Recognition and Classification.** **(Bachlor Thesis & Project, Bachelors, 2020)** • Implementation of an AI-supported system for the recognition and classification of traffic signs based on image processing.

10.04.2025
95028 Hof,
Germany