SALONI PATHAK

SOFTWARE ENGINEER IN TRAINING | AUTONOMOUS SYSTEMS ENTHUSIAST

CONTACT

+49 15510 226340

pathak.saloni.de@gmail.com

LinkedIn: Saloni Pathak

Bonn, Germany

SKILLS

JavaScript, React and NodeJS Front-end development

ROS 2, Gazebo, Flightmare and Unity

Python and C++

Artificial Intelligence and Machine Learning

EDUCATION

Master in Autonomous Systems

Bonn-Rhein-Sieg University of Applied Sciences

2023-Present

Bachelor of Engineering in Computer Science

Visvesvaraya Technological University

2016-2018

LANGUAGES

English

German

Spanish

PROFILE

Front-end Developer with approximately two years of experience in building test frameworks and web applications using JavaScript, NodeJS, and Python. Currently pursuing a Master's in Autonomous Systems in Germany. Proven expertise in creating data visualization platforms, custom chart libraries, and automated attendance systems. Proficient in multiple languages and recognized for strong leadership, time management, and problem-solving skills.

WORK EXPERIENCE

Werkstudent

Feb 2025 - Present

Delphin Technology AG

- Conduct manual testing of Windows-based applications to identify bugs and usability issues
- Collaborate with QA and development teams to ensure product quality and performance

Software Engineer I

May 2021 - Oct 2022

Cynepia Technologies

- Xceed Analytics Chart Library
  - Developed a platform to visualize complex data sets, improving user accessibility and decision-making processes through interactive charts and graphs.
  - Created a custom chart library from scratch using JavaScript and d3.js, enhancing the application's data representation capabilities and user engagement.
- Automated Client Reporting System
  - Implemented a system that generates PDF reports from SVG using Puppeteer, and sends them via email using Python for backend processing.
- Test Framework for Xceed Analytics
  - Designed and implemented a comprehensive test framework using Cypress, resulting in at least a 50% reduction in testing time and increasing code reliability across the product.

Software Engineer Intern

Feb 2021 - Apr 2021

Cynepia Technologies

- Added features on the existing web app to abbreviate numbers in Indian on US abbreviation formats
- Handled front end development, added features to existing projects, and fixed minor bugs

Software Engineer Intern

Feb 2020 - Apr 2020

Ecross Technologies Pvt Ltd

- Involved in making minor changes in the web application
- Worked on front-end development, template design, programming backend codes and SEO maintenance

Personal Tutor

Jan 2023 - Apr 2024

Swotters Academy

- Personal Tutor delivering One-on-One classes for school students.
- Taught Computer Science and Python, Mathematics and English
- Tutored students from various time zones (Melbourne, Texas, London, and some cities in India)

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LANGUAGES

Hindi

Kannada

Telugu

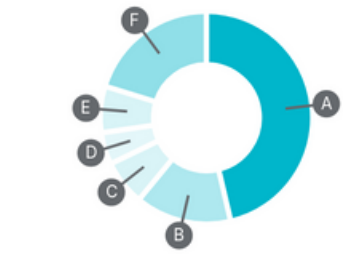
RESEARCH INTERESTS

Human-Robot Interaction
- Safety and Ergonomics in Collaborative Robotics
- Verbal and Nonverbal Communication Strategies

Artificial Intelligence
- Machine Learning
- XAI

Robotics in Healthcare
- Rehabilitation Robots
- Robotic Exoskeletons
- Wearable Health Sensors

MY TIME IN A WEEK



A University Courses
B Relaxing
C Planning
D Fitness+Sports
E Singing+Cooking
F Learning, Enhancing and Trying

PROJECTS

Attendance System based on Face Recognition and Machine Learning

Bachelor Project 2020-2022

- Attendance System based on Face Recognition for Bachelor Project
- Developed an automated system to capture students' faces and mark their attendance accordingly in the class
- Aimed to save time for both students and teachers during lectures
- Regularly tracks students' attendance and marks attendance for students for the respective subject, with 85% average accuracy.
- **Tools and Technologies:** Python, Raspberry pi B V2, BalenaEtcher, Ubuntu and some algorithms like Haarcascade for Face Detection

IoT Based Smart Irrigation System for Science Exhibition

Inter College Competition Jan 2018 - Feb 2018

- Regulated soil moisture at an optimum level
- Automatically switched on the water pump when soil moisture goes below the threshold level
- Provided a toggle (ON/OFF) button in a mobile application (Blynkk app) for manual control of the pump
- **Tools and Technologies:** Embedded C, Arduino Uno, ESP 8266, Arduino IDE

Simulation of Wind Energy for Mini Project

Bachelor Mini Project Oct 2018- Mar 2019

- This project demonstrated electricity generation using wind energy
- It graphically portrayed how with the help of wind energy, power can be generated and used for various domestic appliances
- **Tools and Technologies:** Microsoft Visual Studio 2008, OpenGL