SINDHURA SHIVAPRASAD



PROFESSIONAL EXPERIENCE

Student Assistant

Fraunhofer-Institut für Offene Kommunikationssysteme FOKUS

- Developed the frontend for an application using Next.js, integrating backend knowledge graphs to generate handover action predictions.
- · Contributed to the development of an XApp for cellular handover, focusing on improving network performance between cells.

Associate Software Engineer

Rakuten India Enterprise Pvt Ltd

- Promoted from Technical Intern to Associate Software Engineer, demonstrating skill growth and leadership in delivering a secure web app using ReactJS, Django, and PostgreSQL over 9 agile sprints.
- Spearheaded the development of a Role-Based Web App (Python, Django, MySQL) to streamline user roles, enhance efficiency with hierarchical transfers, and implement robust security measures.
- Led the implementation of a document management platform with a multi-level review system, optimized media handling, and coordinated cross-disciplinary research, contributing to a successful migration from Ruby to Python.

Technical Intern

Rakuten India Enterprise Pvt Ltd

ii 03/2022 - 11/2022 **♀** Bengaluru, India

- Contributed to 3 major projects using agile methodology, including the design and development of an HR Management Tool (Python, Django, MySQL, Bootstrap) to streamline workforce management and optimize HR processes.
- Developed an Employee Feedback Platform (Python, Flask, MySQL, Plotly, Dash, Bootstrap) to enable HRs to create templates, manage surveys, and visualize data for improved collaboration.
- Created a dynamic website for an internal brand event using Bootstrap, delivering a seamless online experience with a focus on creativity and functionality.

Intern

Acranton Technologies

- Explored major Python libraries such as OpenCV, NumPy, Pandas, Seaborn
- Mainly worked on Django Framework

EDUCATION

Master's in Web Engineering

Technical University of Chemnitz (currently

iii 10/2023 - Present ♀ Chemnitz, Germany

• Currently working on my thesis "Knowledge Graphs and Al-driven Chatbots"

Bachelor of Engineering, Information Science

Bapuji Institute of Engineering and Technology

SKILLS

ReactJS	TypeScript	Next.js	TailwindCSS	JavaScript	Bootstrap
NodeJS	Django	Flask Pytho	on C		
MySQL		PostgreSQL	Convex		
Docker	Git Jira	Postman	Confluence		

PROJECTS



AI-Assisted Cybersecurity Chatbot (Masters)

Developed an Al-assisted cybersecurity chatbot application leveraging Bun, Node.js, TypeScript, and Tailwind CSS, integrating OpenAl's API for intelligent interaction. Incorporated ZAP for dynamic scanning and SonarQube for static scanning to detect vulnerabilities, ensuring secure code quality. The application stores chat data in Convex DB and uses NIST for real-time CVE updates, offering features like proactive hardening, automated security checks, and human-in-the-loop functionality for compliance, vulnerability monitoring, and report generation. Secured 2nd Rank in the competition.

https://gitlab.hrz.tu-chemnitz.de/vsr/edu/planspiel/ws2425/group12-denkminds



denkMinds Website

The website for denkMinds showcases the company's mission, team, and key features of the application they provide. It also includes a milestones section and blog posts that narrate the journey of the company. (TailwindCSS, Next.js)

https://denkminds.vercel.app/



Compass4Chemnitz (Masters)

Developed "Compass4Chemnitz", a location-based application using Python Django and React.js, allowing users to find nearby kindergarten, schools and universities based on their preferences. Integrated a map display to show all educational institutions in the user's area and enabled users to favorite or remove locations. The database is updated weekly via a cron job, ensuring accurate and real-time data for users.

https://github.com/Sindhura492/Compass4Chemnitz



Breast Cancer Detection Using Machine Learning Techniques (Bachelors)

Developed a cancer detection system using real-time datasets, employing Python Django and key libraries (OpenCV, NumPy, Pandas). Enabled real-time identification and classification of cancer types (Benign or Malignant)



Hospital Staff Management Portal (Bachelors)

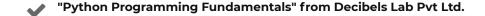
Developed a Hospital Management System with Python, addressing staff portal, record maintenance, positions, and leave management for streamlined hospital operations (Python Django, Bootstrap)

CERTIFICATIONS

 Cisco	Certification	in "Data	Analysis"







RESEARCH



Empirical Research on "GenAl in Collaborative Pair Programming"



Research on "Braille Kit for Visually Impaired" and "Image Steganography"



Been a part of the New Age Innovation Center and worked on a project on "Hydroponics using IOT"

KEY ACHIEVEMENTS



State-Level technical paper presentation on "Brain Controlled Cars using AI"



State-Level Bachelor Project Presentation titled "Breast Cancer Detection Using Machine Learning Techniques" at KSCST(The Karnataka State Council of Science and Technology)

LANGUAGES

German	A2	English	C2	Hindi	Proficient
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Kannada Native