Sachin Yadav

IT student at Uni Stuttgart with strong programming, AI and Software development experience
Address: 70569, Stuttgart, Germany |D.O.B : 18.04.1995|
Contact: +49 17685931527|Email: sachindv42@gmail.com
Portfolio | LinkedIn| GitHub

EDUCATION

Languages: German A1, English C2

University of Stuttgart, Germany **Expected: March 2025**
Master of Science (Grade: 2.5)
Field of Study: Software Engineering (Informatik)

New Horizon College of Engineering, India **2015-2019**
Bachelors of Engineering (Grade: 1.7)
Field of Study: Electronics & Communication

PROFESSIONAL EXPERIENCE

PhiTag **Stuttgart, Germany**
Working Student - Software Developer October 2023 –Present

- Developed and maintained full-stack web applications using Java Spring Boot, Next.js and Postgres, ensuring seamless frontend-backend integration.
- Implemented new features, troubleshoot issues, and managed deployments, enhancing skills in DevOps and server management.
- Designed and debugged applications for accuracy and performance, improving problem-solving skills and attention to detail.
- Developed and optimized Natural Language Processing models and assisted in implementing and fine-tuning large language models (LLMs) for various text annotation tasks.

University of Stuttgart **Stuttgart, Germany**
Research Assistant July 2023 –August 2023

- Developed a full-stack online learning platform using Node JS and React JS, along with MySQL as the database.
- Deployed the application on Google Cloud, gaining experience in cloud services, containerization, and CI/CD practices.

PROJECTS

Towards Automating Text Annotation: A Case Study on Semantic Proximity Annotation using GPT-4 (Paper, Code, Data)

- Automated the data annotation process using GPT-3.5 and GPT-4 for semantic proximity labeling, fine-tuning models to improve accuracy for domain-specific tasks, while maintaining high precision.

Sentiment Analysis

- Developed an NLP-based sentiment analysis model for press or news data to classify text as positive, negative, or neutral, utilizing Python, Hugging Face Transformers, Parameter-Efficient Fine-Tuning, PyTorch, scikit-learn, etc.

Multilabel Classification

- Developed a multilabel classification model using BERT and evaluated with a different base model for news data, applying advanced pre-processing and feature extraction and fine tuning techniques to classify text into multiple categories with high accuracy.

Extension of AdaPrivFlow

- Worked on Adaptive Privacy on Flow Framework for Connected Vehicles using CARLA, MongoDB, Kafka, and the Flink platform. Developed a system for real time data processing and visualization, ensuring real-time privacy adaptation for connected vehicle environments.

SKILLS

Languages & Frameworks: SQL, Python, Java, HTML, CSS, JavaScript, Typescript, Spring Boot, Node JS, React JS

Principles / Concepts: Object-Oriented Programming (OOPs), Test Driven Development, Clean Code, SOLID Principles, CI/CD Pipelines

LLM/AI: OpenAI API, LLaMA, BERT, Hugging Face, etc

Tools: Git, Docker, Linux, Google Cloud Platform, Microsoft Office, Visual Studio

Project Management: Agile Methodology, Jira, Trello