



SHIVANG SINHA

Koblenz Rhineland-Palatinate, Germany

(+49) 15560169619 | shivangsinha2@gmail.com

<https://www.linkedin.com/in/shivang-sinha-92755012b>

www.shivangsinha.online

SUMMARY*

A passionate and detail-oriented IT professional with 4 years of expertise in Natural Language Processing (NLP) and full-stack development. Proven ability to leverage technical skills in Data Science and Artificial Intelligence to drive innovative solutions. Currently enhancing my skill set with a Master's in NLP, I am eager to contribute to a forward-thinking team where I can apply my knowledge to real-world challenges and drive impactful results.

TECHNICAL SKILLS

- ➔ **Programming Languages:** Python, C++, Java, JavaScript, TypeScript, SQL, HTML/CSS
- ➔ **Frameworks & Libraries:** TensorFlow, Keras, PyTorch, React, Node.js, Express, Lang Chain, Llama-Index, Fast API, Flask
- ➔ **Data Science & Machine Learning:** NLP, Deep Learning, Data Visualization
- ➔ **Tools & Technologies:** AWS, GitHub, IDEs, Docker, Kubernetes, Git, JIRA, RESTful APIs, Linux bash
- ➔ **Databases:** MySQL, MongoDB, PostgreSQL
- ➔ **DevOps and Agile Working Models:** Scrum, Kanban, CI/CD, Cloud Automation

PROFESSIONAL EXPERIENCE

BARCLAYS

Senior Software Developer

INDIA

Mar 2022 – Mar 2024

- Designed and developed NLP models for text classification, sentiment analysis, and named entity recognition using TensorFlow and PyTorch, achieving an accuracy improvement of 15% over previous models.
- Conducted data preprocessing, tokenization, and vectorization to prepare large datasets for model training, resulting in a 20% reduction in processing time and a 25% increase in model training efficiency.
- Gained hands-on experience in major LLM open-source frameworks like Lang Chain and Llama-Index.
- Collaborated with cross-functional teams to deploy NLP models into production, achieving a 15% increase in system accuracy.
- Demonstrated strong practical experience in Python programming for machine learning and AI applications.

Projects

Barclays Chatbot for Internal Website

- ➔ Built and deployed an NLP-based chatbot using TensorFlow to assist internal customers and employee with product inquiries, order tracking and IT configuration management.
- ➔ Integrated the chatbot with the website's backend, resulting in a 25% increase in overall engagement and increased efficiency.

Hexagon CCI

Software Developer

INDIA

Sept 2020 – Mar 2022

- Architected and managed responsive web applications using React and Node.js, achieving a 35% increase in user engagement and a 45% improvement in overall application speed and performance.

- Engineered robust RESTful APIs to enable new front-end functionalities and third-party service integration, resulting in a 25% increase in application performance and a 15% reduction in server response time.
- Optimized database queries and improved data retrieval times by 20%.
- Utilized modern development tools including IDEs and Linux bash for efficient coding and debugging.
- Hands-on with AWS and contributed to projects using GitHub for version control and adhered to agile working models.

Projects

Hexagon On Call Dispatch- Smart Advisor Developed a sophisticated software system for computer-aided dispatch, designed to enhance public safety through advanced incident management features. Responsibilities included:

- ➔ Leading the development and enhancement of core functionalities
- ➔ Collaborating with clients to understand their needs and translating them into effective software solutions
- ➔ Creating new features tailored to support and improve public safety efforts.

EDUCATION

TRIER UNIVERSITY, Trier ,Germany
MASTER OF SCIENCE- NATURAL LANGUAGE PROCESSING

2024-PRESENT

CHANDIGARH UNIVERSITY, Chandigarh, India
BACHELOR OF ENGINEERING- CSE- CLOUD COMPUTING(HONS)

2016-2020

LANGUAGES

ENGLISH
GERMAN

CERTIFICATION

1. ChatGPT Prompt Engineering for Developers
2. Machine Learning - Stanford university (Coursera)
3. Artificial Intelligence Analyst - Mastery Award 2019 (IBM)
4. Big Data Hadoop -Web Tek Labs