



# Shivang Sinha

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## ABOUT ME

A passionate and detail-oriented IT professional with 4 years of expertise in Natural Language Processing (NLP) and full-stack development. Currently deepening my knowledge with a Master's in NLP, I am enthusiastic about securing working opportunity to apply my technical skills in Data Science and Artificial Intelligence within a dynamic and forward-thinking environment.

## WORK EXPERIENCE

### Senior Software Developer

**Barclays** [ 21/03/2022 – 29/03/2024 ]

City: Pune | Country: India

- 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 LangChain 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.

### Software Developer

**Hexagon capability centre India** [ 03/09/2020 – 21/03/2022 ]

City: Hyderabad | Country: India

- 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.
- Contributed to projects using GitHub for version control and adhered to agile working models.

## EDUCATION AND TRAINING

### Master of Science

**Trier University** [ 30/03/2024 – Current ]

City: Trier | Country: Germany | Field(s) of study: Natural Language Processing

### Bachelor of Engineering

**Chandigarh University** [ 08/2016 – 05/2020 ]

City: Chandigarh | Country: India | Field(s) of study: Computer science and Engineering

## LANGUAGE SKILLS

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**Mother tongue(s):** English

**Other language(s):** German

## DIGITAL SKILLS

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Programming Languages: Python, C++, Java, JavaScript, SQL, HTML/CSS / Frameworks & Libraries: TensorFlow, Keras, PyTorch, React, Node.js, Express, LangChain, Llama-Index / Data Science & Machine Learning: NLP, Deep Learning, Data Visualization / Tools & Technologies: GitHub, IDEs, Docker, Kubernetes, Git, JIRA, AWS, RESTful APIs, Linux bash / Databases: MySQL, MongoDB, PostgreSQL / Agile Working Models: Scrum, Kanban

## PROJECTS

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[ 03/2022 – 03/2024 ]

### **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.

[ 08/2020 – 03/2022 ]

**Hexagon OnCall 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.

## HOBBIES AND INTERESTS

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1. Cricket 2. Open Source Contribution

## CERTIFICATIONS

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### **ChatGPT Prompt Engineering for Developers**

Credential URL: [ShivangSinhaDeeplearning.ai](https://shivangsinha.com/deeplearning/ai)

[ 2023 ]

### **Machine Learning - Stanford university(Coursera)**

Credential URL: <https://www.coursera.org/account/accomplishments/certificate/VUCXGKSB56KU>

### **Artificial Intelligence Analyst - Mastery Award 2019 (IBM)**

Credential URL: [https://www.credly.com/badges/978fbd0c-cea3-4a69-aab2-b2d12d916876/linked\\_in\\_profile](https://www.credly.com/badges/978fbd0c-cea3-4a69-aab2-b2d12d916876/linked_in_profile)

### **Big Data Hadoop -WebTek Labs**

Credential Id: WTL/2018-19/351