



Shivang Sinha

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SUMMARY

I am a passionate and detail-oriented IT professional with over 4 years of in-depth experience in **Machine Learning**, **Natural Language Processing (NLP)**, and **full-stack development**. My expertise spans across designing, developing, and deploying AI-driven solutions that solve complex real-world problems and deliver measurable business value. With a robust background in data science and artificial intelligence, I have successfully spearheaded several projects that have significantly enhanced system performance and user satisfaction. Currently, I am pursuing a **Master's degree in NLP** to deepen my knowledge and further hone my skills. I am eager to join a forward-thinking team where I can apply my advanced technical skills to contribute to groundbreaking AI projects that drive innovation and create impactful results.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java, JavaScript, TypeScript, SQL, HTML/CSS
- **Frameworks & Libraries:** TensorFlow, Keras, PyTorch, Scikit Learn, OpenCV, NumPy, React, Node.js, Express, Lang Chain, Llama-Index, FastAPI, Flask
- **Data Science & Machine Learning:** NLP, Deep Learning, Data Visualization, Model Deployment, Deep Generative Models (Autoencoders, GANs, Diffusion models)
- **Tools & Technologies:** AWS, GitHub, Docker, Kubernetes, Git, JIRA, RESTful APIs, Linux bash
- **Databases:** MySQL, MongoDB
- **DevOps and Agile:** Scrum, Kanban, CI/CD, Cloud Automation

PROFESSIONAL EXPERIENCE

1. BARCLAYS

Senior Software Developer

INDIA

Mar 2022 – Mar 2024

- **Full-Stack Development:** Built responsive web applications using React, Django, MySQL, and Node.js, enhancing user engagement by 35% and performance by 45%.
- **Project-Based Analysis Website:** Created a web app with Excel download and bulk upload features to track and analyze RPA team performance, along with a monitoring dashboard for process efficiency.
- **API and Database Optimization:** Developed RESTful APIs to boost application performance by 25% and streamlined database operations, improving data retrieval times by 20%.
- **Cloud & DevOps Enhancements:** Optimized AWS deployment strategies, reducing cloud costs by 15%, and increased version control efficiency by 20% through advanced GitHub practices and Agile methodologies.
- **NLP Model Development:** Improved model accuracy by 15% through designing and developing NLP models for tasks like text classification and sentiment analysis using TensorFlow and PyTorch.
- **Chatbot Development:** Led the development of a TensorFlow-based chatbot, reducing support ticket resolution time by 25% and increasing customer satisfaction by 30%.

2. Hexagon CCI

Software Developer

INDIA
Sept 2020 – Mar 2022

- **Full-Stack Development:** Architected and improved responsive web applications using React and Node.js, which led to a 35% increase in user engagement and a 45% boost in application performance.
- **API Development:** Developed and optimized RESTful APIs to enable seamless integration of new front-end functionalities and third-party services.
 - **Performance Improvement:** Attained a 25% boost in application performance and reduced server response time by 15%.
- **Database Optimization:** Streamlined database operations, leading to a 20% improvement in data retrieval times, which upgraded the overall speed and efficiency of web applications.
- **Cloud & DevOps:** Enhanced AWS-hosted projects by optimizing cloud deployment strategies, leading to a 15% reduction in cloud costs.
- **Version Control:** Boosted version control efficiency by 20% through advanced GitHub practices and strict adherence to Agile methodologies.

EDUCATION

TRIER UNIVERSITY, Trier, Germany
MASTER OF SCIENCE
NATURAL LANGUAGE PROCESSING (DATA SCIENCE)

2024-PRESENT

CHANDIGARH UNIVERSITY, Chandigarh, India
BACHELOR OF ENGINEERING
COMPUTER SCIENCE ENGINEERING WITH CLOUD COMPUTING(HONS)

2016-2020

LANGUAGES

ENGLISH (Advanced)
GERMAN (Intermediate)

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

VOLUNTEERING

[2020] Ranchi, Jharkhand, India

Hold my hand Took the initiative of Creating a volunteer group during COVID to help poor people get food and clothes. Additionally took part in river cleanup efforts.

[2022 – Current] Pune, Maharashtra, India

Barclays- CSR(Corporate Social Responsibility) Took the initiative to collaborate with government-run schools that were receiving less support and to mentor them. We also painted the school's walls with caricatures that were both practical and educational.