

SHLOK KUMAR

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Education

Master of Computer Applications (MCA), Machine Learning and Artificial Intelligence July 2022 – July 2023
Amity University Online

Bachelor's Degree in History and Psychology 2017 – 2021
Veer Kunwar Singh University (VKSU) *India*

Work Experience

Data Science Intern September 2024 – December 2024
Nullclasses *Remote, India*

- Engineered and launched a real-time Generative AI customer service chatbot, reducing response time by 65%
- Optimized real-time response generation and context management, handling 500+ daily customer interactions
- Enhanced chatbot performance through continuous learning and fine-tuning, achieving 92% customer satisfaction rate

Generative AI Intern August 2024 – September 2024
Prodigy Infotech *Remote, India*

- Fine-tuned GPT-2 model using PyTorch for domain-specific language generation, achieving 30% improvement in relevance scores
- Architected a text-to-image generation system using diffusion models, processing 1000+ daily requests
- Designed neural style transfer applications, increasing artistic transformation speed by 40%

Machine Learning Engineer Intern June 2024 – August 2024
Feyn Labs *Remote, India*

- Engineered machine learning algorithms for market segmentation, analyzing 50,000+ customer profiles
- Spearheaded AI solutions for 15+ small and medium businesses, driving 15% growth in client acquisition
- Created predictive models and data analysis pipelines, improving data processing efficiency by 25%

AI Engineer Intern April 2024 – May 2024
SKXYWTF *Remote, Phoenix, Arizona, United States*

- Constructed machine learning models for predictive analytics, improving forecast accuracy by 25%
- Built and deployed NLP models for text analysis, processing 10,000+ daily messages with 95% accuracy

Key Projects

Natural Language Processing: Engineered LLAMA-2 fine-tuning system, reducing training time by 40%*[Fine-Tuning-GenAI]*

Computer Vision: Created a text-to-image diffusion model, generating 100+ high-quality images per minute*[Diffusion-Model]*

Transformer Models: Architected a dialogue summarization system processing 5000+ conversations daily*[Dialog-LLM]*

AI Ethics: Designed a text toxicity reduction model, improving content safety by 75% *[Detoxify-Model]*

Large Language Models: Optimized Flan-T5 base model, reducing inference time by 35% *[Flan-T5-Model]*

MLOps: Built a Gradio app for real-time toxicity detection, processing 2000+ comments per hour *[Toxicity-App]*

Technical Skills

Programming Languages: Python, Java, SQL

Machine Learning Frameworks: TensorFlow, PyTorch, Keras, scikit-learn, Hugging Face Transformers, LangChain, CrewAI, Prompt-Engineering

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn

Cloud & DevOps: Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure, Docker, Git, Heroku

AI Specializations: Natural Language Processing, Computer Vision, Generative AI, Time Series Analysis, Recommender Systems

Achievements

- Led an Agile team of 4 in implementing machine learning solutions, resulting in 20% efficiency improvement
- Mentored 5 data science students in developing advanced machine learning and deep learning projects