Shlok Kumar

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Education

Master of Computer Applications (MCA), Machine Learning and Artificial Intelligence **July 2022 – July 202**
Amity University Online *Ind*

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

Work Experience

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

- Developed machine learning algorithms for market segmentation using Python and TensorFlow, increasing marketing efficiency by 20%
- Implemented AI solutions for small and medium businesses using scikit-learn and PyTorch, driving 15% growth in client acquisition
- Created predictive models and data analysis pipelines, improving data processing efficiency by 25%

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
- Developed a text-to-image generation system using diffusion models, producing high-quality image outputs
- Implemented neural style transfer applications, demonstrating proficiency in computer vision techniques

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

- Engineered machine learning models for predictive analytics, improving forecast accuracy by 25%
- Developed and deployed natural language processing models for text analysis and sentiment classification using BERT and transformers

Key Projects

Natural Language Processing: Implemented GPT-2 fine-tuning for enhanced language generation capabilities (github.com/Shlok0095/Fine-Tuning-GenAI)

Computer Vision: Developed a text-to-image diffusion model for high-quality image synthesis (github.com/Shlok0095/Diffusionmodel_usingpytorch_and_UNEtNetwork1-)

Transformer Models: Created a dialogue summarization system using T5 transformer architecture (github.com/Shlok0095/Summerize-dialoge-LLM)

AI Ethics: Engineered a text toxicity reduction model to improve content safety (github.com/Shlok0095/Fine-tune-model-to-detoxyfy-summeries)

Large Language Models: Implemented and fine-tuned Flan-T5 base model for various NLP tasks (github.com/Shlok0095/Flan-t5-base-model)

MLOps: Developed a Gradio app for real-time comment toxicity detection (github.com/Shlok0095/Comment_Toxicity-model-along-with-Graduio-simple-app-to-trace)

Technical Skills

Programming Languages Python, Java, SQL, R

Machine Learning Frameworks TensorFlow, PyTorch, Keras, scikit-learn, Hugging Face Transformers

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

Cloud & DevOps Amazon Web Services (AWS), 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

Awarded 'Best AI Innovation' for developing an eye-tracking PC control system using computer vision techniques

Mentored 5 data science students in developing advanced machine learning and deep learning projects