Sagar Kumar

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TECHNICAL SKILLS

Programming Languages:	Python, C++, Java
Machine Learning Frameworks:	TensorFlow, Keras, Scikit-learn, PyTorch
Frameworks/Libraries:	HTML, CSS
DevOps & Deployment Tools:	Docker, Kubernetes, CI/CD, MLOps
Cloud & AI Platforms:	Azure AI, IBM Cloud
Tools/Platforms:	MySQL, Git, GitHub, Jupyter Notebook
Soft Skills:	Collaborative , adaptable, Quick Learner, strong analytical problem-solving skills

EXPERIENCE

Likhlo AI – AI Content Generation Platform   Jun 2024 – Jul 2024
Machine Learning Intern

- Architected the core content generation pipeline using **transformer-based models**, **boosting semantic accuracy** by 25%.
- Orchestrated the **integration of third-party LLM APIs**, enabling **dynamic text generation** for diverse user needs.
- Curated **optimized prompts** for multiple use cases (blogs, SEO, academic writing), increasing **generation quality** across verticals.
- Implemented **scalable backend services** with **Node.js** and **MongoDB**, ensuring minimal latency for content delivery.

PROJECTS

Robotic Arm Control Using Reinforcement Learning | GitHub   Sept 2024 – Nov 2024

- Developed a reinforcement learning model to control a robotic arm with precision using Q-Learning and Deep Q-Networks (DQN).
- Simulated robotic movements in OpenAI Gym environment and integrated PyTorch for model training and performance tuning.
- Achieved improved accuracy in trajectory prediction and task completion using reward-based feedback loops.
- Conducted hyperparameter tuning and implemented policy gradient techniques for optimal action selection in dynamic environments.

Zillow Home Value Prediction | GitHub   Mar 2024 – May 2024

- Engineered a machine learning pipeline to predict real estate prices using Zillow dataset with regression models (Linear Regression, XGBoost, Random Forest).
- Performed feature engineering, data cleaning, and exploratory data analysis (EDA) to uncover key market trends.
- Optimized model performance using GridSearchCV and cross-validation, achieving high R^2 and low RMSE.
- Deployed the trained model using Flask, incorporating CI/CD principles for seamless updates.

CERTIFICATES

IBM DevOps and Software Engineering	IBM	Nov 2024
Azure AI Fundamentals (Self-Paced)	Microsoft	Jul 2024
Natural Language Processing	Deeplearning.ai	May 2024
Mastering Data Structures & Algorithm using C & C++	Udemy	May 2023

EDUCATION

Lovely Professional University   Phagwara, Punjab
Bachelor of Technology   Pursuing
Computer Science and Engineering; CGPA: 7.2

+2 High School   Gaya, Bihar
Intermediate   Mar 2020 – May 2022
PCM; Percentage: 74.2%

Holy Public School   Gaya, Bihar
Matriculation   Mar 2018 – May 2019
Percentage: 58.8%