Utkarsh Kumar Sahu

Email: utkarsh.bhuiit@gmail.com Portfolio: lordsahu.vercel.app LinkedIn: utkarshkumarsahu Twitter: utkarshkumar Github: utkarsh-iitbhu

EDUCATION

Indian Institute Of Technology (BHU)

Bachelor of Technology; CGPA: 8.14

Varanasi. India Nov 2020 - June 2024

SKILLS SUMMARY

• Hard Skills DSA, DL, Transformers/LLM's, OpenCV, Time Series, MERN Stack, Docker/Kubernetes, Django/FastAPI

- Technical Proficiencies C, C++, Python, SQL, JavaScript, Matlab, OS, DBMS, CN, OOPS, System Design-LLD.
- Tools Jupyter Notebook, VS Code(IDE), Github, Tableau, MS Excel, MySQL, Canva, Figma, Postman, Minikube.
- Soft Skills Leadership, Teamwork, Time Management, Flexibility, Coaching/Mentoring, Motivated and Work Ethic.

EXPERIENCE

• Data Scientist at Publicis Sapients

May 2023 - July 2023

- Developed clustering and mathematical (Pulp) models for optimizing facility locations in warehouse management.
- o Optimize the objective function, solve inventory and route optimization problems for the delivery chain by 3.1%
- Deployed code using Docker and increased efficiency by 2.1%, used service pods on an AWS Kubernetes cluster .
- Exposure: Operation research, Business study, Mathematical models (Pulp), Kubernetes, Streamlit. Link

Artificial Intelligence Trainer at Scale AI

Feb 2024 - May 2024

- Developing RLHF (Reward Learning from Human Feedback) strategies to enhance the effectiveness of chatbots.
- Implementing quality control practices to ensure accurate chatbot responses, improving the user experience.
- Ensuring the reliability of AI models by maintaining high standards in task execution by promoting precision.
- Exposure: Large Language Models (LLM), Prompt Engineering, Parallel Algorithms

• Deep Learning Engineer at TMLC

Dec 2022 - Feb 2023

- Worked on detecting YOLO models, i.e. yolov5-v7-v8 models, increased accuracy by 7.8% using FPN networks.
- o Detected birds & calculated the interval, created dashboards on streamlit, improved interference speed by 80fps.
- Worked with 100+ CCTV footage and deployed model on an AWS EC2 instance to calculate the metrics.
- Exposure: Object-Detection-Segmentation, YOLO-v7/8, Tensorflow, AWS, Roboflow, Streamlit. Link

• Machine Learning Engineer at Univ.AI

Oct 2021 - Dec 2021

- Worked on scraping using Octoparse and generating a phone sales dataset with a MAPE score 0.029.
- o Implemented Statistical, LSTM, ARIMA and XGBoost model achieving an accuracy rate of 97.31%
- Worked with the events team and organise the ML hackathon for 250+ students and administered leaderboard.
- Exposure: Time series, ARIMA, Web Scraping, XGBoost, Octoparse, Event Management. Link

Projects

• Memor.AI Ed-Tech Platform

Jan 2023 - March 2023

- Built an Ed-Tech platform for active retention learning using Flutter, Django, and Transformers. Apk
- Developed spaced repetition, BERT-based generator, summarizer, similarity, extracting QnA model as features.
- o Deployed **Django** backend on **Heroku** to fetch API requests on our app, created a Deck of our solution. Deck
- Exposure: BERT, OpenAI, Django, RestAPI, Flutter, Heroku, UI/UX, Figma, Product management

• Synthetic Serendipity - Enigmatic Anime VAE-GAN

Sept 2022 - Oct 2022

- Leveraged Variational Autoencoder and GANS to generate unique anime-style character faces.
- Utilized PyTorch to implement Deep Convolution GAN and trained on a diverse dataset of anime images.
- Resulted in character portraits with potential gaming and digital art applications and deployed using FastAPI.
- Exposure: Variational Autoencoder (VAE), Generative Adversarial Network (GAN), FastAPI, Pytorch, Jinja. Link

Honors and Achievements

- Auto Code Generator using GPT-3 Neo: Demonstrated the working of Auto Code Generator using GPT-3 Neo, which generates code from snippets or commands. Built with the transformer model having 1.3 billion parameters. Link
- Multiverse of Languages Intro to Python: Delivered a 2.5-hour live Python tutorial covering 30 key topics, hosted by Google Developer Students Club (GDSC). The video has over 3000+ views on YouTube. Link
- Research Paper Implementation Missing Data Sequence: Designed a deep imputation model using a sequence-to-sequence architecture in Tensorflow to recover missing data sequences and implemented a sliding window algorithm for training samples. Link

Position of Responsibility

Technical Events Head, COPS(IG)

Varanasi. India

Conducted various hackathons, workshops and events for freshers.

June 2022 - June 2023

Moderator, Cntrl Shift Intelligence

Varanasi, India *April* 2022

Organised and served as a mentor for a dynamic 3-day hackathon hosted on Kaggle.

Extra-Curricular Activities

- Solved 400+ questions on the Interview Bit platform and 1500+ questions on various coding platforms. Profile
- Verbal Mention in the All India Political Party Meet (AIPPM) committee at IIT BHU MUN. Link