Yudhvir Singh

yudhvirs01@gmail.com — www.yudhvirsingh.com

Experience

8Flow AI - 2 months

AI/ML Engineer, 8Flow AI, Oct 2024 - Present

- · Analyzed and processed time series data of millions of customer records
- · Deployed open source LLMs for processing sensitive customer data

Kipo AI - 1 year

Founding AI/ML Engineer, Nov 2023 - Oct 2024

- \cdot Setup the AI/ML infrastructure for data collection, ETL, training and deploying AI/ML models
- · Designed and implemented LLM, NLP and vision models to extract the important data from the documents
- · Designed and implemented data pipelines for both AI/ML and software development
- · Optimizing and fine-tuning LLMs to enhance performance and efficiency to reduce latency and cost
- · Worked with the team in India to delegate the data collection and evaluation tasks for AI/ML models
- · Worked on multiple paid POC's for customers (2 end-to-end and parts of many others)
- · Participated in multiple customer meetings, understanding their goals and adapt product accordingly

Uniquify - 4 years 8 months

Senior AI/ML Engineer, Sep 2021 - Oct 2023

- · Collaborated closesly with cross-functional teams to understand buisness requirements, translate them into technical specifications, and deliver AI solutions
- · Led the development and implementation of AI models for a range of projects including autolabeling, deep-fakes, chatbots, speech recognition, text-to-speech, object detection, object tracking, defect detection
- · Mentored and provided guidance to junior team members, helping them grow and develop in AI engineering
- · Setup and deploy AI/ML models on local servers.
- · Use LLMs with chatbots to develop custom solutions and easy user interactions

AI/ML Engineer, Oct 2019 - Aug 2021

- · Conducted extensive research and analysis to identify appropriate AI algorithms and techniques for each project, resulting in improved accuracy and efficiency
- · Optimized existing AI models, reducing computational costs by 10-25% and improving performance by 5-10%
- · Improve existing AI models by implementing new algorithms and optimizing hyperparameters

Al Engineer Intern, Apr 2019 - Aug 2019

- · Assisted in conducting research on AI algorithms and methodologies, contributing to the development of innovative solutions
- · Implemented and tested various machine learning algorithms, evaluating their performance and optimizing hyperparameters

BSNL - 1 year

Junior Software Engineer, Jan 2016 - Nov 2016

- · Collaborated with senior developers on a team to design and implement new features for a web application
- · Conducted code reviews, offering constructive feedback to improve code quality

Education

M.S in Computer Engineering, San Jose State UniversityB.Tech in Electronics & Communication Engineering, DAVIET

Aug 2019

May 2016

Certifications

- · LangChain with Python Bootcamp: Udemy link
- · Natural Language Processing with Python: Udemy link
- · Complete Python Bootcamp: Udemy link
- · Deep Learning: Advanced Computer Vision(GANs, SSD, +More!): Udemy link
- · Deep Learning and Computer Vision A-Z: OpenCV, SSD & GANs: Udemy link
- Python for Computer Vision with OpenCV and Deep Learning: Udemy link
- · PyTorch for Deep Learning with Python Bootcamp: Udemy link
- Tensorflow 2 and Keras Deep Learning Bootcamp: Udemy link

· Python for Data Science and Machine Learning Bootcamp: Udemy link

Technical Skills

- **Programming languages**: Python, C++ (worked in past)
- · Computer Science: Data Structures, OOP, System Design, Statistics, Probability
- · Deep Learning Frameworks: Tensorflow, PyTorch
- · Al libraries: Langchain, Huggingface, Numpy, Scipy, Pandas, Matplotlib, Spacy, NLTK
- Computer Vision: Classification, Object Detection and Tracking, Face Detection and Recognition, Segmentation, Deepfakes
- · **Natural Language Processing**: LLM, Bert, Transformers, Chatbots, Sentiment Analysis, Spam Classification, Sentence Autocomplete
- · Web development: Flask, HTML/CSS
- · Databases: MySQL, Mariadb
- · Other: Dockers, Amazon Web Services(AWS), Linux, Git, Shell scripting, LATEX, MarkDown, Sphinx

Projects

- · Detect tiny defects in soc chips using multiple computer vision algorithms
- · Developed Deepfakes using generative models like autoencoders and GAN's
- · Fingerprint recognition using conventional and ai algorithms
- · Developed chatbot using generative NLP
- · Implemented JPEG and JPEG2000 in python and achieved same quality and compression to adobe photoshop
- · Use Fourier Transform on raw input data to improve ai models performance

Personal Skills

· Leadership skills, Strong communication, Highly motivated and eager to learn new things, Ability to work as and individual as well as in a group, Strong debugging and problem solving skills