

Yudhvir Singh

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Experience

Founding AI/ML Engineer, Stealth Startup, Nov 2023 - Present

- Adapted quickly to a fast-paced environment, handling multiple tasks simultaneously while meeting tight deadlines
- Engaged in rapid prototyping and testing of various computer vision and nlp architectures to optimize performance on specific use cases
- Build end-to-end pipelines for AI models. Preprocessing, training and deploying models
- Optimizing and fine-tuning LLMs to enhance performance and efficiency
- Actively participated in daily stand-ups, contributing insights and ideas that improved the team's workflow efficiency

Senior AI/ML Engineer, Uniquify, Sep 2021 - Oct 2023

- Collaborated closely with cross-functional teams to understand business 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, object detection, defect detection
- Mentored and provided guidance to junior team members, helping them grow and develop in AI engineering
- Use LLMs with chatbots to develop innovative solutions and easy user interactions

AI/ML Engineer, Uniquify, 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

AI Engineer Intern, Uniquify, 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

Junior Software Engineer, BSNL, 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 University

Aug 2019

B.Tech in Electronics & Communication Engineering, DAVIET

May 2016

Technical Skills

- **Programming languages:** Python, C++ (worked in past)
- **Computer Science:** Data Structures, OOP, System Design, Statistics, Probability
- **Deep Learning Frameworks:** Tensorflow, PyTorch
- **AI 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:** Docker, Amazon Web Services(AWS), Linux, Git, Shell scripting, L^AT_EX, 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