Kshitij Gupta

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EDUCATION

International Institute of Information Technology (IIIT-H), Hyderabad, Telengana   Aug 2021 — May 2023
M.Tech in Computer Science
Coursework: Introduction to NLP, Statistical Methods in AI, Distributed Systems, Distributing Trust and BlockChains, Introduction to Neural and Cognitive Modelling, Computational Social Science.

Indraprastra Institute of Information Technology (IIIT-D), New Delhi, Delhi   Aug 2015 — May 2019
B.Tech in Computer Science
Coursework: Image Analysis, Computer Vision, Machine Learning, GPU Computing, Privacy and Security in Online Social Media

SKILLS

Languages	C, C++, Java, Javascript, Python
AI Stack	Pandas, Numpy, OpenCV, Scikit-Learn, Pytorch, ONNX Model Framework, CVAT Annotation, Triton Inferencing Server
Web Stack	Node.js, React.js, Electron.js, Django, Flask
Databases	PostgresDB, MariaDB
Cloud Native	Docker, Kubernetes, Kserve, Proxmox Virtualization Enviroment

EXPERIENCE

CARS24   Gurgaon, Haryana
Machine Learning Engineer   June 2024 - June 2025

- Worked with Core DS Team to solve Inspection Automation for Cars. Reduced car inspection time by 20-30 minutes per inspection.
- Created a Image Validation Pipeline for end to end Part Validation for each car part. Served the model using kserve model serving on GCP Kubernetes engine and used Triton as a inferencing server.
- Created a super efficient image validation module for mobile TFlite framework with part validation and pose detection under 5 MB!
- Added a oil leak detection algorithm for underbody oil leak detection to the existing damage estimation pipeline.
- Orchestrated end-to-end pipeline from annotations to model training. Automated the whole process for efficient agile ML deployment.

Typeface India   Hyderabad, Telangana
Software Engineer   July 2023 - Mar 2024

- Working with the Image Track Team to push new core Image features to the Typeface App with feature requests from big multinational companies such as LG, Marks & Spencer, Ford, etc.
- Deployed generative image models - Stable Diffusion, ImageGen, Dall-E to the image stack.
- Maintained and added features to the different generative pipelines such as product based scene generation, inpainting, outpainting, color palette based generation, style based generation.
- Maintained inference stack on Azure and GCP for masking based inference and Generative based inferencing.

ttdsoft   New Delhi, Delhi
Software Engineer (Founding)   May 2020 – June 2021

- Worked on providing solutions for protecting digital content from copy and theft protection on Windows, Mac and Android systems (TV and Mobile) - created ePendrive, Secure Browser, encrypted Video Player for Android Phone and TV and video streaming service for Android.
- Initially wrote the Players in Python then re-wrote the entire application in Electron.js with screen capture protection.
- Setup the Licensing system for encryption with Node.js back-end APIs.
- Hosted and maintained website, and full backend stack - DBs, APIs, cloud content, email server, email OTP service with local server setup on a bare-metal!

MirrorSize US Inc.   New Delhi, Delhi
AI Engineer   May 2019 – June 2020

- Worked in the person detection and segmentation for body contour extraction helping in calculating body measurements.
- Used RCNN based image segmentation for extracting humans from single shot scene.
- Created a pipeline from taking a image to feeding image to model to calculating measurements of the body.