# KARTIK ASLIA

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skizzy-create

## PROFESSIONAL EXPERIENCE

**WanderMore Ai** 08/2023 – 01/2024
Machine Learning Engineer -INTERN Remote,
United Kingdom

- Enhanced itinerary creation in a Travel Guide by fine-tuning a Large Language Model (LLM) using Retrieval-Augmented Generation (RAG) and Self-RAG.
- Increased search context by 47% by establishing a pipeline using Serper to connect LLM to the internet.
- Improved cost tracking accuracy by 30% by developing and implementing a token cost logger feature.

## EDUCATION

**Bachelors's of Engineering** 08/2022 – present
Chandigarh University Gharuan,Mohali, India

## SKILLS

**Machine Learning**
Supervised, Unsupervised, Reinforcement

**Deep Learning**
ANNs, CNNs, LSTMs, GAN's

**Artificial Intelligence**
Transformers, BERT, GPT

**Database Management**
MongoDB, PostgressDB, ORM's

**Leadership and Resilience**
Efficiency, Productivity, Innovation, Collaboration

**Backend Development**
Backend Developer ,JavaScript, TypeScript, MERN, Prisma

## PROJECTS

**Fashion Image Generation Using GAN** 06/2023 – 07/2023
GANs, Fashion MNIST

- Trained a Generative Adversarial Networkusing the Fashion MNIST dataset.
- Implemented a custom training loop for simultaneous training of both the generator and discriminator models.
- Reduced training time from 7 days to 12hours through GPU acceleration

**Satellite Image Processing for Road Extraction** 09/2023 – 10/2023
CNN's UNET Architecture

- Developed a U-Net model for road extraction from satellite images, achieving an accuracy of 99.4%.
- Constructed a comprehensive data pipeline covering data loading, model training, prediction, and post-processing.
- Leveraged TensorFlow, OpenCV (cv2), and CUDA for model development and data processing, reducing training time by 93%.

**Hybrid Model Architecture for Position Estimation** 01/2024 – 02/2024
ANN's & RNN's Hybrid Model

- Developed a hybrid model combining Dense and LSTM layers for accurate 3D position prediction of ballistic projectiles with an accuracy of 99.6%.
- Applied z-score normalization and efficient data handling techniques, increasing model accuracy from 46% to 95.4%.
- Integrated GPU support for model training, significantly reducing computation time from 3 days to 33 hours and enhancing training efficiency.