

Naman Khurpia

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TECHNICAL EXPERIENCES

Inpleo LLC, Pittsburgh, Pennsylvania, Machine Learning Engineer

March 2024 – present

- Developed OCR model using **LayoutLMV3** with **Pytorch Lightning module**, working with Multiple GPUs and maintaining memory overload, consuming heavy sets of data with Kafka, Setting up new **Kafka topics** and **Kafka broker** agents.

Eitacies Inc, Santa Clara, California, Machine Learning Engineer Intern

August 2023 – January 2024

- Developed NLP Model to detect **Racial discrimination** from video dataset, collaborated with a Realtime pipeline for detection.

OneDataShare, Research Assistant, Buffalo NY, Cloud Developer

January 2023 – May 2023

- Collaborated at Transfer Scheduler, facilitating transfer of terabytes of data from Google Drive, S3 using **Kafka** and **RabbitMQ**
- Implemented **PKI** secrets engine using **Vault**, enabling token management with fine grained **ACL policies**.

TATA Consultancy Services –Digital, Bangalore, India, System Engineer (Machine learning Engineer)

Aug 2020 - July 2022

- Built and trained an NLP model to optimize code conversion from one syntax to another using RNNs, identifying and resolving ambiguities. Achieved an impressive accuracy of 88% for converting Cobol to Java (Spring) for 10 million lines.
- Led the design and development of Western Union's money transfer solution using Spring Java Microservice, collaborating with 10+ teams and re-architecting the WillCallStore (WCSTOX) program's solution to manage transactions from 50+ countries.
- Developed a microservice layer that validates and stores all money order records in postgres and connecting data-stream Kafka, configurations of multiple Kafka topics, devised a common encryption layer to ensure the security of sensitive data.

TATA Consultancy Services, Bangalore, India, Systems Engineer Intern

Jan 2020 - April 2020

- Collaborated at CMA to support the development of a large, scaled solution for a MNC, server-side load balancing-Netflix OSS.

EDUCATION

Master of Science – Computer Science and Engineering

GPA 3.83 out of 4

The State University of New York at Buffalo

January 2024

Bachelor of Technology – Computer Science and Engineering

GPA 8.49 out of 10

VIT University, Vellore Institute of Technology

June 2020

SKILLS

Machine learning skills – Transformers, LLMs, Pytorch Lightning, Hydra, Tensorflow.

Programming Languages – Java, Python, TypeScript, JavaScript.

Frameworks – Spring Boot, Node JS, Native Android App Development, Angular 14, React JS.

Cloud technologies – AWS EC2, Elastic Beanstalk, EC2, S3, Lambda.

Tools – Docker, Apache Kafka, Rabbit MQ, Jenkins, SonarQube, Redis, Git, Netflix OSS, Zuul, SQL, MongoDB, CheckMarx, Vault.

PROJECTS

[GitHub](#)

- AdmitWise (2023), School of Computer Science** – Created an Admissions portal where we evaluated profiles to analyze applicant's documents like Resume, SOP, test scores and ranking them. (Transformers for classification and evaluation). [Link](#)
- OpenAI API Build Tools (2023), Personal Project** – Designed **Maven** and **Gradle** build tools for Chatting, Vision, Speech, Dalle, Moderation - API, enabling asynchronous calling of all endpoints, Implemented multithreading support. [Link](#)
- Clickbait spoiler Detection (Masters Major Project 2023) School of computer science** – Classifying clickbait spoiler type, detecting clickbait spoiler in Paragraph, Phrases and Multi lined Posts using different State of the art Algorithms – trained and fine-tuned RoBERTa, DistillBERT, Sentence Transformers – cosine similarities, achieved 73% accuracy. [Report](#)
- Dall E 2 Client (2023) Personal Project**– An open-sourced Android App that allows content creators to generate images using OpenAI's - Dall-E API and publish their results on social media. [Link](#)
- Car Agent reward-based reinforcement learning project (2023) School of computer science** - Implemented a graphical grid world with different reward-based algorithms - greedy, SARSA, Q-learning using different strategies- stochastic, deterministic.

RESEARCH PAPERS

- Clickbait spoiler detection and classification using Transformers 2023. [Link](#)
- Analysis of Machine code using Natural language processing -IEEE 2021. [Link](#)

ACHIEVEMENTS

- Mentor at Grace Hopper Conference 2023, Open-source contribution to **NodeJS-core** repository. 2023
- Special Achievement Award by TCS – Employee of week during award Sprint. 2021