

KALASH KANKARIA

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EDUCATION

B.Tech. in Computer Science and Engineering — CPI 9.08/10

Nov. 2020 – June 2024

Indian Institute of Technology, Gandhinagar (IITGN)

Gandhinagar, IN

EXPERIENCE

Data Scientist

July 2024 – Present

Skann.ai, Bangalore — AI Team

Bangalore, IN

- Designed a *unique-screen* identification pipeline that clusters structurally similar webpages while remaining agnostic to instance and tabular data, auto-classifying pages in real time and eliminating screen-level noise.
- Delivered an Outlook-email understanding pipeline: fine-tuned open-source LLMs (Qwen, Granite, Llama, HF checkpoints) via Ollama and engineered prompts for intent mining and entity extraction; Managed end-to-end delivery from LLM setup, docker image generation for on-prem client gateway to algorithm processing, and db persistence.
- Implemented hierarchical, unsupervised clustering of emails by intent at several business-relevant granular levels, focusing on action verbs, domain keywords and instance details, along with stream wise email categorization.
- Built a classification pipeline for segregating process and non-process related emails for enterprise clients by combining a hybrid approach (topic-modeling + One-Class SVM + rule-based NLP).

Data Science Intern

May 2023 – July 2023

Skann.ai, Bangalore

Bangalore, IN

- Benchmarked capabilities and limitations of commercial Large Language Models (LLMs) for large-scale synthetic-data generation to bolster downstream model training.
- Led training and fine-tuning of LLMs with transfer learning for event grouping and task identification; delivered a production-grade prototype slated for client deployment.

PROJECTS

Machine Unlearning — Forgetting Images | *PyTorch, Python, Transformers, Streamlit* Jan 2024 – Apr 2024

- Implemented, hypothesized and benchmarked multiple image based machine-unlearning algorithms (fine-tuning resets, noise-injection fast unlearning, layer re-initialisation) to unlearn a dataset, remove biased or sensitive samples from trained models, enhancing responsible practices and ethical deployment.
- Built a biometric facial-recognition demo and evaluated unlearning strategies on real data, balancing accuracy vs. unlearning latency.

Bayesian Unlearning — Learning to Forget | *Python, PyTorch, TensorFlow, Streamlit* Aug 2023 – Nov 2023

- Investigated Bayesian Unlearning methods for probabilistic modeling (Laplace approximation, MCMC, variational inference, other mathematical approximations) and enabling selective data removal without full retraining.
- Derived a closed-form unlearning update for logistic regression and explored extensions to neural networks, charting future research directions.

Reputation & Conflict Propagation in Signed Networks | *Python, Scikit, NetworkX* Mar 2022 – Apr 2023

- Analysed a Signed Reddit-hyperlink network to define trustworthiness scores across 86 edge attributes and formulated a *hate factor* per post.
- Applied Random Forest and LSTM models on centrality-feature vectors to predict conflict propagation.

TECHNICAL SKILLS

Languages: Python, C++, C, SQL, MATLAB, HTML/CSS, Assembly, Java (basic)

Frameworks/Libraries: PyTorch, TensorFlow, Keras, NumPy, Pandas, Scikit-learn, Matplotlib, Streamlit, OpenAI, Ollama, Llama, Transformers

Tools: Docker, Git/GitHub, Postgres, MongoDB, Microsoft Office, Autodesk Inventor/Fusion, Huggingface, LaTeX

LEADERSHIP & ACHIEVEMENTS

- Teaching Assistant — *Machine Learning (ES335)*, IITGN Jan 2024 – Apr 2024
- Captain, Women's Aquatics Team, IITGN Aug 2022 – Apr 2023
- Student Representative, Senate Academic Programmes Committee, IITGN Aug 2022 – Jul 2023
- Gold Medal for Overall Outstanding Performance in Sports & Gold Medal for Outstanding Performance in Aquatics, Graduating Class of 2024
- Dean's List — Semesters II, III, VI & VII
- Bronze Medal, 4 × 50 m Women's Relay — Inter IIT Aquatics Meet 2023
- Special Advisor, Coordinator - Student Academic Council, IITGN
- NTSE Scholarship 2018, Government of India