Ayush Kumar Anand

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EDUCATION

Indraprastha Institute of Information Technology New Delhi, IN
Bachelor of Technology in Computer Science and Artificial Intelligence *Aug. 2023 – May 2027*
- Relevant Coursework: Introduction to Programming, Data Structures & Algorithms, Advanced Programming, Statistical Machine Learning, Operating Systems, Database Management Systems, Linear Algebra, Probability & Statistics, Discrete Structures, Multivariate Calculus

PROJECTS

RE-DACT | *PyTorch, Hugging Face* Dec 2024
- Developed a web-based platform leveraging NLP and Computer Vision to automate redaction of sensitive data in text and images
- Implemented Named Entity Recognition (NER) using Transformer-based models (BERT, SpaCy) to detect personally identifiable information
- Integrated OCR (Tesseract) for extracting and processing text from scanned documents, ensuring accurate redaction
- Optimized the inference pipeline for real-time processing with PyTorch

Crop Buddy | *TensorFlow Lite, Flutter, Dart* Sept 2023
- Built a mobile app for farmers to detect crop diseases using deep learning-based image classification
- Trained a Convolutional Neural Network (CNN) on a large dataset of diseased crop images and deployed it using TensorFlow Lite for efficient on-device inference
- Designed an intuitive UI in Flutter with multilingual support to make AI-powered disease detection accessible to non-tech-savvy users
- Optimized the model for low-resource devices, reducing inference time by 40% without significant accuracy loss

HACKATHONS

2nd Place - Smart India Hackathon 2024 (Out of 100+ Teams) Dec 2024
TrueSight IIITD
- Led the development of RE-DACT, an AI-powered redaction tool, as part of the Smart India Hackathon 2024
- Implemented NLP techniques with Transformers (BERT/Spacy) for accurate entity recognition and automated redaction
- Optimized the ML model inference pipeline to ensure real-time processing with minimal latency
- Integrated the ML model with a Next.js-based web interface, enabling seamless user interaction and file processing
- Worked in collaboration with a multidisciplinary team, demonstrating strong ML, problem-solving, and software engineering skills under tight deadlines

ACHIEVEMENTS

- Achieved a Codeforces rating of 1245 (Pupil)
- Secured a Rank of 4291 in Codeforces Round 964 out of 30,000+ participants

TECHNICAL SKILLS

Languages: C/C++, Python, Java, HTML, CSS, Javascript, Typescript, Rust, Dart
Frameworks: Node.js, Express.js, React.js, Next.js, Electron.js, Flutter
Developer Tools: Git, Github, Docker, TailwindCSS, MongoDB, PostgresSQL, Prisma, Supabase, Vim
Libraries: pandas, NumPy, Matplotlib, Scikit-Learn, PyTorch