Ayan Gaur

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EDUCATION

University of California San Diego
B.S. Mathematics and Computer Science   GPA: 3.7, Provost Honors, Courses: DSA, ML, Embedded Systems, OS, Recommende

Cornell University   May 2024 - Aug. 2024
Machine Learning Foundations Certificate

EXPERIENCE

American Express   Aug. 2024 - Dec. 2024
ML Intern
- Fine-tuned DeBERTa and DistilBERT models to develop a sensitive data discovery pipeline, achieving 79% accuracy and applying custom regex solutions to accurately identify incorrectly classified data by 30%
- Optimized BIO-label alignment using tokenization strategies reducing over-redaction and false positives by 25% through cross-validation and hyperparameter tuning, using iterative model optimization
- Integrated contextual NER techniques, achieving 76% precision, 72% recall across diverse financial text datasets

Image Infosystems   July 2024 - Sep. 2024
Computer Vision Intern
- Developed high-accuracy OCR models with 94.4% accuracy and ¡4.8% loss while using a custom ONNX function converting TensorFlow models to PyTorch ensuring complete retention of model accuracy
- Improved cheque verification accuracy by 18% through algorithm enhancements for image preprocessing and feature extraction in high-security bank applications

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Dart, Bash, R, ARM, HTML, CSS, JavaScript, TypeScript. Frameworks: TensorFlow, PyTorch, Keras, Flask, Flutter, Next.js, Tailwind CSS. Developer Tools: Git, ONNX, Power BI, Firebase, MATLAB, Microsoft Office (Excel, Word, Outlook). Libraries: Pandas, NumPy, Seaborn, Matplotlib, Scikit-Learn, React