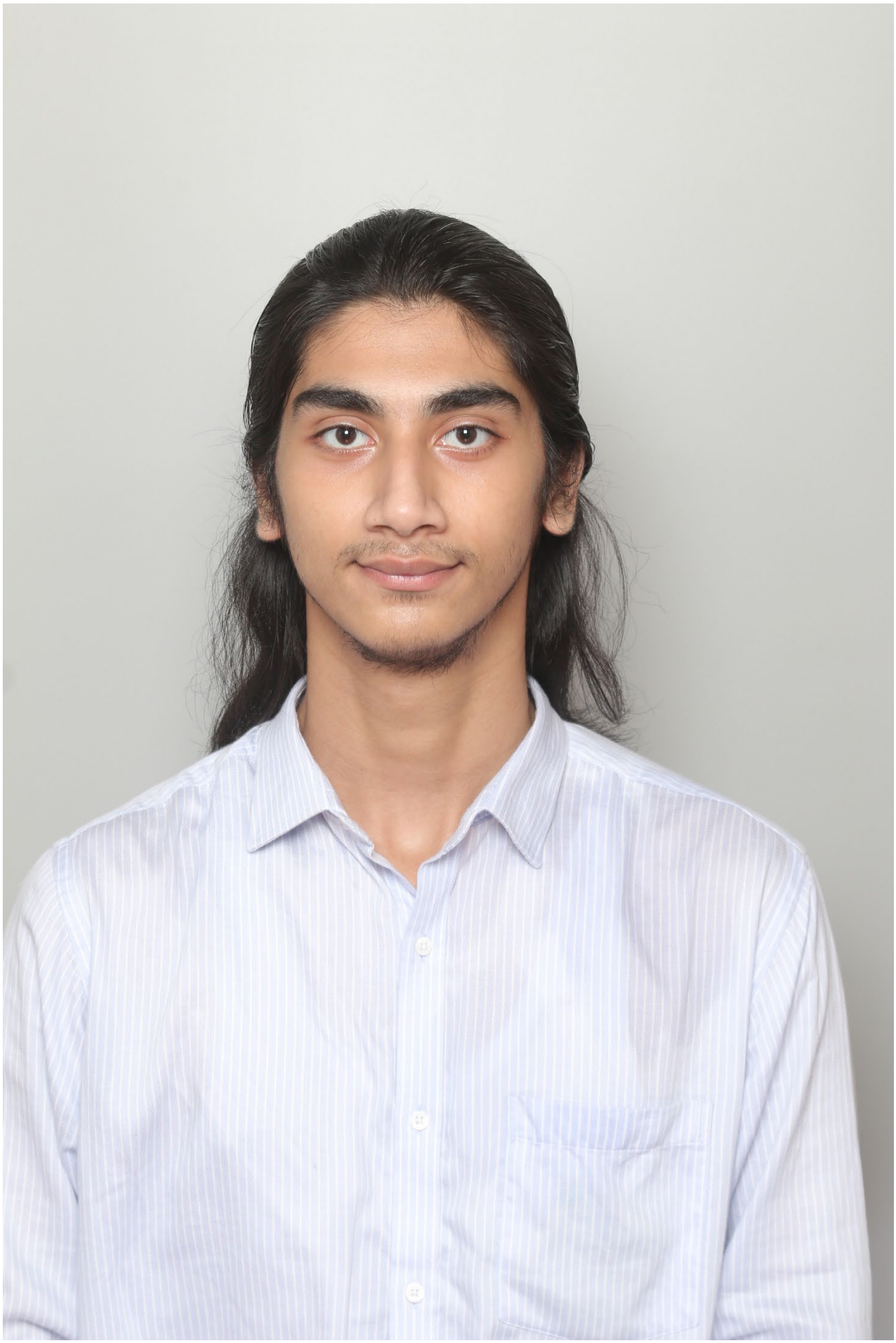
Wrishav Sett



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AI/ML Engineer with over a year of experience developing deep learning solutions across computer vision and large language model (LLM) domains. Focused on building scalable systems for document intelligence, visual recognition and automation, driving significant reductions in manual effort and operational overhead.

Education

The Neotia University — Sarisha, Diamond Harbor
B. Tech in Computer Science and Engineering, 8.02 CGPA — August 2021 - June 2024

St. Joseph's College — Kolkata, West Bengal
ISC, PCM with Computer Science, 89.0% — April 2018 - March 2020

Experience

DCG Data-Core Systems (INDIA) Pvt. Ltd. — Kolkata, West Bengal
Software Trainee — July 2024 - Present

- Developed deep learning models for detection, recognition, OCR, document parsing, and more achieving consistent performance of 80% accuracy across tasks using CNNs and transformer-based architectures.
- Built and maintained automated data pipelines for collection, cleaning, and labeling, reducing manual preprocessing effort by nearly 30%.
- Implemented components of document intelligence systems using pretrained LLMs and layout aware models (e.g., Layout Parser, Layout LM) enabling extraction of structured data from PDFs and images with over 80% extraction accuracy in production test runs.
- Wrote modular and reusable Python scripts for data collection, preprocessing, training, inference, and evaluation, improving maintainability and consistency across projects.
- Developed and deployed Flask-based APIs to serve model inference endpoints for integration with the rest of the system designed by the senior engineers.
- Collaborated with senior engineers to integrate trained models and backend logic into production systems; the final deployed solutions led to a 40% reduction in client manual effort, significantly lowering operational workload and overhead.

DCG Data-Core Systems (INDIA) Pvt. Ltd. — Kolkata, West Bengal
ML Intern — February 2024 - June 2024

- As an intern, I worked on supervised projects that served as proof of concept, which were then researched extensively and iterated upon.
- Performed manual validation of model inference results to check for inconsistencies or errors.
- Developed a fundamental License Plate Recognizer, by collecting, annotating and training a model.

Certifications

Oracle Could Infrastructure 2024 Generative AI Certified Professional
Oracle University — May 2024

Artificial Intelligence with Machine Learning
AILABS — September 2023

Blockchain and Crypto Technology
Sunstone — May 2023

Projects

Facial Recognition Attendance System
Python, FAISS, InsightFace, OpenCV, ElevenLabs

- Built an efficient and scalable facial recognition system for automated attendance management. Utilizes high-accuracy embeddings and FAISS vector indexing for fast identity matching. Features voice announcements, duplicate entry prevention, and structured data logging with reset cycles and reporting logic.

Document Parser
Python, Flask, PyTorch, Hugging Face Models, Layout Parser, Label-Studio

- Engineered a document parsing pipeline that uses custom-trained layout-aware models to extract key fields from scanned PDFs or images and returns structured JSON output, with a user-friendly interface enabling manual validation and multi-format export.

Assembly Line Product Counter
Python, Ffmpeg, Django, Ultralytics YOLO, Label-Studio

- Developed a YOLO-based object counting system for real-time factory floor monitoring, involving end- to-end dataset creation, model training (achieving above 73% accuracy), and deployment via a Django server.

Cognitive Document Reader
Python, Ollama, Flask, PaddleOCR

- Designed a document understanding API that integrates OCR with prompt-engineered LLMs to extract semantically meaningful data fields from scanned documents and return structured outputs in JSON format.

RAG-Based Document Intelligence Chatbot
Python, Streamlit, FAISS, Ollama, TikToken, PyPDF2

- Built a self-hosted chatbot enabling natural language queries over user-uploaded documents using a RAG pipeline. Employed token-based chunking and local embeddings (via Ollama) with FAISS for semantic retrieval and used local LLMs for generating context-aware responses. Delivered through an interactive Streamlit interface with multi-format file support and offline capability.

Virtual Floor Preview
Python, Flask, PyTorch, Hugging Face Models

- Developed a virtual interior visualization tool that combines computer vision and Hugging Face models to simulate tile or carpet placement in user-submitted home images for realistic pre-installation previews.

Pneumonia Detection
Python, Flask, TensorFlow, Jupyter Notebooks, HTML/CSS

- Trained and evaluated multiple CNN models on chest X-ray datasets to detect Pneumonia, with a Flask-based interface enabling real-time predictions and interpretability through a simple web app.

Skills & Interests

Programming Languages: C/C++, Core Java, Advanced Java (JDBC and JavaFX), Python, SQL, HTML, CSS, JavaScript, LaTeX
Technologies and Libraries: Django, Flask, Relational Databases (Oracle SQL, PostgreSQL, MySQL), Ollama, TensorFlow, PyTorch, OpenCV, Hugging Face, Ultralytics YOLO
Tools and Platforms: Visual Studio Code, PyCharm, Eclipse IDE, IntelliJ IDEA, Label Studio, Advanced Excel, Power BI, Tableau, Git, Vim, Nano, Google Colab, Kaggle Notebooks
Languages: English (Expert), Bengali (Native), Hindi (Beginner)