

Abhijith C M



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abhijith-c-m

TECHNICAL SKILLS

Languages: Python

Technologies/Frameworks:

- Machine Learning, Deep Learning, NLP, CNNs, LLMs, VLMs, Computer Vision, Document Understanding, OCR, Multimodal Models
- PyTorch, TensorFlow, OpenCV, Scikit-Learn, Transformers
- Flask, FastAPI, Celery, RabbitMQ, MySQL, NoSQL(MongoDB)
- vLLM, AWQ Quantization, Docker, Redis, Ghostscript, Streamlit, System and Service Management, Linux.

EXPERIENCE

Overall Experience: 3.5+ years in Software Development.

Decimal Technologies Private Limited, Bengaluru - Software Engineer(AI/ML) **Feb 2025 - July 2026**

Continuing to work in FinTech(BFSI), currently working on Decisioning and Validation of customers based on information and various KYC, Financials documents provided, by analyzing the documents and validating against source data by integrating various internal/third party APIs.

Deploying and Managing all Python related backend services and their respective logs.

Namaste Credit, Bengaluru - Software Engineer(AI/ML) **Sep 2022 - Jan 2025**

Working in FinTech for over 2 years, I played a pivotal role in researching, developing, and integrating advanced classification, data extraction, and document understanding processes for various financial and KYC documents. My responsibilities encompassed a range of tasks aimed at enhancing the accuracy and efficiency of these processes.

Operative India Private Limited, Bengaluru - Engineering Intern **Mar 2022 - Aug 2022**

During my internship as a QA Engineer, I focused on automating testing processes using scripts and generating reports through Jenkins.

EDUCATION

BMS Institute of Technology and Management

Bengaluru, Karnataka

BE - Computer Science and Engineering, **CGPA - 7.77**

Aug 2018 - Jul 2022

PROJECTS

VahanaAI

Feb 2025 - Present

- Various Banking/Financials documents structured data extraction model pipelines development and deployment.
- Researching on signature match, document forgery detection etc.

Technologies: VLMs, vLLM, Docker

FTR/Gatekeeping

Feb 2025 - Present

- Source Data Collection: Integrated document extraction/analysis internal AI APIs, and Vahana Hub Wrapper APIs of source data such as GST, Udyam, NSDL Pan, UIDAI etc.,
- Validation: Comparing the source data with data provided by customers. Data such as Name, DOB, Address and Business details in case of business.
- Decisioning: A Report combining all the KYC, Financials, source and customer provided data comparison is generated based on validations.

Technologies: Data Analysis, Flask, MySQL

KYC Documents Classification, Data Extraction and Masking

Sep 2022 - Jan 2025

- Object Detection Models: Developed and integrated state-of-the-art YOLO models for classifying KYC Documents(Pan, Aadhar, DL, Passport, Voter ID) and identifying key information areas for data extraction.
- OCR Models: Testing and integrating various Open Source OCR models to enhance data extraction

accuracy.

- Document Orientation Detection: Developed and integrated a model for detecting document orientation.
- OCR-Free Document Understanding Multimodal: Trained and integrated DONUT model for OCR-free document understanding.
- Asynchronous Processing: Integrated a Celery Worker for asynchronous task execution in the masking process.
- Performance Improvement: Significantly improved data extraction accuracy by continuously training models on new data, adding additional data cleaning steps. Optimized code to reduce processing time.

Technologies: OpenCV, Object Detection(YOLO), OCR, PyTorch, Transformers, Flask, Celery, RabbitMQ, Redis.

Banking/Financial Data Extraction and Analysis

Apr 2023 - Jan 2025

- Bank Logo Dataset: Built a dataset of bank logos using web scraping techniques for classification in bank statements.
- Data Extraction Model: Trained a model for extracting basic details from bank statements and contributed to the development of tabular data extraction process.
- Financial Document Processing: Contributed in creating data extraction processes for various financial documents, including GST, ITR, UDYAM, etc.
- Banking Transactions Classification: Trained machine learning models and BERT Language model for classifying banking transactions to facilitate banking analysis.
- Inference Time Reduction: Significantly reduced inference time by implementing quantization and VLLM methods on a fine-tuned LLM model used for named entity recognition (NER) in banking analysis.

Technologies: YOLO, Mask R-CNN DL Models, Scikit-Learn, PyTorch, Pandas, Ghostscript, BeautifulSoup, Llama2, Transformers, LLM Quantization(AWQ), vLLM.