

Chandrakanta Chaudhury

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Summary

Result driven AI/ML Lead with 12+ years of experience in end-to-end project lifecycle management. Proven track record in leveraging AI/ML and predictive modeling to drive business growth and operational efficiency.

Achievements :

- Doubled customer acquisition through innovative AI/ML-driven product features.
- Spearheaded development of information extraction tools, yielding **\$1M/year** in revenue and **50%** reduction in manual efforts.
- Build a SaaS product powered with AI ,generating revenue of **\$200K /year** .
- Led ERP analytics automation (B2B), generating **\$500K** annual revenue.
- Successfully managed cross-functional teams (AI, DevOps, Java/.NET/React.js) .
- Expertise in LLM, RAG ,VectorDBs and implementing tech stacks for Fashion Analytics, IoT ,ERP products and SaaS applications .

Experience

iBridge Analytics & Development pvt ltd - India

May 2023 - Present

AI/ML Lead

- Contract information extraction with LLM (**GPT-4o** API) and RAG using Langchain , prompt optimized with the DSPy framework, reduces manual workforce by **50%** .
- Image enhancement of historical scanned books and autocropping and denoising are projected to generate **\$1M** annual revenue and reduce manual effort by 70%.
- Optimized Chronoextract, a legal event mapping and retrieval using Llama index and Qdrant , improving attorney efficiency by **30%+** .
- Engineered EOB product for healthcare information extraction, achieving **98% accuracy and 30-40%** resource savings .
- Fine-tuned 7B LLM instruct and Visual QA models on H100 GPUs, enhancing contract title extraction accuracy to **96%**.
- Implemented Falconsai/text_summarization for document summarization, an 60.5M parm fine tuned model increasing efficiency of application by **20%** and reducing latency .
- Optimized system performance by implementing FastAPI and RabbitMQ and integrated github CI/CD pipeline .
- Architected systems for product development, experimentation, and LLM model training/fine-tuning.

AbsecLabs – India

Nov 2020 - Apr 2023

Data Science Lead

- Developed a recommendation system for content consumption and learning paths, increasing user engagement by **35%**.
- Integrated gpt 3.5 turbo for learning application for quick code suggestion for learners and improving learners completing course tests by **60%** .
- Enhanced fashion classification accuracy to **97%** using Xception net model and automated labeling pipeline.
- Implemented dynamic pricing model for fashion items, doubling sales.
- Engineered pipeline for information extraction with Flan T5 ,OCR from PDF and JPEG using Azure document Intelligence , achieving **98%** accuracy.
- Automated data curation techniques for cross-table and column profiling of ERP data, saving **10-15 hours** of manual work weekly.
- Deployed models on AWS cloud, utilizing serverless AWS Lambda functions and models trained on Sagemaker .
- Constructed Airflow DAGs for efficient batch job processing and Implemented CI/CD pipeline .

Deloitte India – Hyderabad, India

Jan 2020 - Oct 2020

Lead Solution Advisor (ERP Products)

- Implemented automation of data ingestion ,clustering and EDA using CortexAI on SAP data, estimated to be generating \$500K in revenue.
- Developed NLP and machine learning-based automation tool for SAP upgrade impact analysis, reducing manual work by 4-5 days per client upgrade.

- Engineered data processing pipeline integrating Hadoop systems and SQL Server DB, implementing robust data quality checks using Python.
- Mentored 5 junior developers and interns, fostering their growth in ML/AI technologies.
- Designed and implemented ML/AI pipeline for predictive analytics, enhancing data-driven decision making.

CFog - Hyderabad, India

Apr 2018 - Dec 2019

Data Scientist

- Increased customer engagement by **25%** through implementation of time series forecasting model for IoT sensor data (pH, O2)
- Developed recommendation engine for aquaculture farm feeds and drugs, driving **20% sales** growth in 2019.
- Engineered disease detection model for fish and shrimp using ResNet-50, achieving **94% accuracy** with fast.ai packages

Optum Global Solutions - Hyderabad, India

Dec 2015 - Mar 2018

Senior Software Engineer

- Decreased application bugs by over **85%** and efficiently managed application issue backlogs.
- Developed proof of concept for client dashboarding and incident ticket management reporting.
- Optimized cobol codes and Db2 queries and designed JCL jobs for batch scheduling .

Polaris software lab – India / Malaysia

Mar 2011 - Mar 2015

Consultant

- Reduced incidents and bugs by 10% for IMEX application while providing application support for MESA countries.
- Automated Mainframe application report generation for 12 countries, improving efficiency and accuracy.
- Designed and integrated VBA macros scripts for Report generations .

Education

Stoa School, India

Oct 2021 – Mar 2022

General Management Program

SRR Engineering College, Anna University , India

Aug 2007 – Jun2010

Master in Computer Science Applications

Skills

AI/ML : Python,Pytorch,Tensorflow ,NLP,Computer vision,Time series analysis, Recommendation systems

GenAI /LLM: LlamaIndex ,Langchain ,GPT4, MISTRAL, Llama3,LORA ,QLora,RAG,TGI,Axolotl ,VLM,DsPy,Phoenix ,Ragas,ColPali

DevOps : CI/CD, AWS ,AZURE,Github ,Lambda,API,Docker ,Kubernetes,SQS,RabbitMQ

DB: Vector DB (Qdrant /Vespa / Weaviate),SQL ,MongoDB,Elastic search,Neo4J / Cypher

Visualization: Tableau , Latentscope