

GNANA PRASATH

Lead Data Scientist

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Chennai, India

gnana-prasath

SUMMARY

Strategic Lead Data Scientist with 10+ years of experience operationalizing enterprise-scale Generative AI, Computer Vision, and NLP solutions. Proven track record in architecting high-performance systems that drive significant cost optimization, operational efficiency, and global business growth. Expert at leading cross-functional teams to bridge the gap between complex research and production-grade product innovation

EXPERIENCE

Lead Data Scientist

Yubi

Feb 2022 - Present Chennai

Strategic leadership Orchestrating all strategic initiatives, enterprise-scale projects, and production-grade POCs for the Generative AI, Computer Vision and NLP Center of Excellence CoE across the Yubi Group.

OptimaAI Building and operationalizing OptimaAI, an advanced RAG-based financial intelligence system facilitating natural language querying of Indian corporate entities and complex financial datasets.

Contractual intelligence Developing a RAG-assisted chatbot for automated, clause-level query resolution across diverse vendor agreements, streamlining legal workflows across multiple product categories.

Global Bank statement extraction platform Built and scaled a template-agnostic bank statement extraction platform achieving 95% accuracy across Europe, Middle East, East Asia, India, and Sri Lanka.

Cost optimization OCR Engineered a custom OCR pipeline to replace AWS Textract, delivering \$120K in annual cost savings while maintaining enterprise-grade scalability and precision.

High-performance KYC Architected an end-to-end KYC extraction framework leveraging seven deep learning models; achieved 99% accuracy and 0.5s latency on a single g4dn instance, driving \$0.5M in annualized savings.

Market benchmarking Consistently outperformed industry-leading KYC platforms (including IDfy and HyperVerge) across accuracy, latency, and total cost of ownership

High-throughput engineering Built a high-velocity captcha resolver processing 500,000 requests per day on a single-core CPU system.

LLM optimization Fine-tuned and optimized LLaMA 3.2 1B for high-precision entity extraction, significantly enhancing downstream accuracy and reducing compute costs for bank statement intelligence.

FSA extraction Financial Information extraction with 99%+ accuracy using Gemini LLM and OCR to classify and extract Balance sheet, Profit and Loss, Cashflow and related schedules information with Rubber banding feature to cross verify all the extraction to relevant page and it's exact coordinate location within the page



ROLES AND RESPONSIBILITIES



Driving enterprise-scale AI solutions

By owning end-to-end product strategy, delivery, and production rollout aligned to business outcomes.



Operationalizing high-impact AI use cases

By converting PoCs into scalable production systems enabling data-driven decisions.



Optimizing cost & operational efficiency

Via performance benchmarking, infrastructure rationalization, and ROI-focused execution.



Executing strategic AI programs

Through cross-functional stakeholder alignment, global deployment, and localization excellence.

SKILLS

Computer vision		Object detection	
Voice AI	NLP	Deep Learning	
KYC	AWS	Python	PyTorch
TensorFlow	OCR	OpenCV	
Airflow	CUDA	Django	
RESTAPI	Flask	PostgreSQL	
FastAPI	Azure	GCP	Docker
Kubernetes	RAG		
Image Processing		Vertex AI	
Chroma		Document Extraction	
Generative AI		LLM	

EXPERIENCE

Senior Associate - Data Science

TheMathCompany

📅 Aug 2020 - Feb 2022 📍 Bangalore

- Led and mentored a 10-member Data Science Team to deliver data-driven automobile payment recommendation solutions
- Designed and deployed a price elasticity-driven payment recommendation model
- Built and automated robust Airflow pipelines for data extraction and model training
- Delivered high-accuracy computer vision solutions including digit extraction and object detection models

Application Development Senior Analyst

Accenture

📅 May 2016 - May 2020 📍 Hyderabad

- Conceptualized and deployed an ML-driven resource planning system achieving 0.0014 Hamming Loss
- Engineered a classifier-chain framework with Gradient Boosting
- Productionized model inference via Flask APIs on IIS
- Implemented predictive equipment failure models increasing productivity by 10%

FIND ME ONLINE



LinkedIn

<https://www.linkedin.com/in/gnana-prasath/>



GitHub

<https://github.com/gnana70>

EDUCATION

Bachelor of Engineering

Anna University

📅 08/2012-05/2016

📍 Coimbatore, India

LANGUAGES

English

Professional



Tamil

Native



PAPERS

Pharmaceutical Quality Inspection Leveraging Machine Vision

Journal of Advanced Research in Dynamical and Control Systems

📅 2017

📄 D. Gnana Prasath K. Akila B. Sabitha A. Ayyarsami
N. Navaneethan