(+91) 8050518293

Bangalore, Karnataka [deepakjon31@gmail.com](mailto:deepakjon31@gmail.com)

Deepak Kumar

ML Scientist

[linkedin.com/in/deepak-kumar-624a1653](https://www.linkedin.com/in/deepak-kumar-624a1653)

[github.com/deepakjon31](https://github.com/deepakjon31)

Experienced leader with 12+ years in driving AI/ML initiatives, leading data science and ML teams to deliver advanced AI solutions and achieve strategic business goals.

# SKILLS

**Tools and Languages** Python, RAG, GenAI, ML, AI, Deployment, GIT, Docker, Podman, Postman, DB (NOSQL, SQL, VectorDB)

**Platform** Windows, Linux, Web, AWS, Azure, Pytroch, langchain, haystack, autogen, crewai

**Soft Skills** Leadership, Time Management, Problem-Solving, Conflict Resolution, Integrity

# EXPERIENCE

## Associate Director 01 2018 — Present

*Innovation lab of Acuity Knowledge Partners Bangalore, KA*

* Collaborated with stakeholders to translate business needs into technical specifications
* Built a strong Data Science community for SaaS product teams
* Ensured data integrity through robust validation processes and governance frameworks
* Presented project progress and roadmaps to senior management and stakeholders
* Contributed to research, including PoCs on agentic frameworks and technology evaluations
* Designed scalable, production-ready RAG systems using Azure (GPT-4, 4o), AWS Bedrock (Claude3, titan-x), and open-source (HF)
* Achieved 80% relevance score by optimizing context retrieval components by hybrid, hyde techniques
* Designed solutions to process thousands of financial documents daily with chunk insights
* Architect solutions to process and search millions of financial documents using hybrid (keyword, semantice) search methods
* Built serverless and server architectures on AWS (Lambda, ECS, EC2, sagemaker)
* Designed Vision model (YOLO) for document layout and custom OCR for scanned documents, language translation
* Worked on prompt engineering for LLMs and LLM-Agents - credit, equity and ESG report generation using AutoGen, CrewAI
* Built RAG evaluation module, Grafana dashboard, token usage tracking, logs analysis, API and compute
* Designed and implemented data acquisition from various sources (web, API, docs, vendor), processing and storing
* Designed solution architecture for projects using AWS ecosystems, including touchless deployment (SAM), saving 50% of engineers’ time
* Ensured compliance with code quality and security guidelines for data science projects
* Designed high-scalable API endpoints (AWS API Gateway, FastAPI), tracking usage, response time, etc.

## Senior Data Scientist 09 2015 — 12 2017

*NEC Technologies Pvt Ltd Bangalore, KA*

* Developed vision models to detect human faces using ResNet, YOLO, and other CV models.
* Contributed to OpenStack open-source projects, including components like Gyan, Glance, Swift, and Cinder.
* Developed customer sentiment analysis using NLTK.
* Worked clustering problems with K-means algorithms.
* Designed similar search text using TF-IDF embeddings and KNN.

## Data Scientist 06 2014 — 09 2015

*ONMobile Pvt Ltd Bangalore, KA*

* Automated processes to enhance efficiency.
* Developed a log analyzer tool.
* Acquired and processed data from diverse sources.
* Trained logistic regression model for customer churn, achieved 79% accuracy on test dataset.

# EDUCATION

**M.Tech, Data Science and Engineering**, *BITs Pilani* 03 2023

**B.Tech, Computer Science and Engineering**, *BPUT* 05 2013