

## Ajit Kumar

### Generative AI/ML/AI/Data Science

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A highly skilled and experienced Generative- AI and LLM expert professional with a strong background in AI/ML/Data Science and have a passion for leveraging technology to drive innovation. Seeking a challenging leadership role to apply my expertise and contribute to cutting-edge projects in a dynamic organization.

### PROFILE SUMMARY

1. **17+ years of progressive IT experience** in building and deploying innovative Solution in business domain operations (like: Telecom, SCM, Finance, Merchandising, Energy, Logistics, Education & Pharma etc.)
2. **7 years** of experience in Artificial Intelligence (**AI**), Machine Learning (**ML**) and Deep Learning with end-to-end deployment in production environments and ensure scalability and reliability
3. Developed data science pipelines and deploying analytical models into production environments.
4. **3+ Years** Experience in designing and implementing generative models using deep learning frameworks (e.g., TensorFlow, PyTorch, keras, Caffe, Theano). Demonstrated expertise in working with GPTs, GANs, VAEs, diffusion models or other generative AI techniques.
5. Experience of building/customizing and fine-tuning generative AI and other large-language-models (LLMs/LSTMs/BERT) using Langchain and other transformers models for Text to text, Text to Video, text to image, implementing using RAG, finetuning (with Lora, Qlora, PEFT) and optimization of LLMs.
6. Proficiency in programming languages such as Python, R Programming and familiarity with relevant libraries and tools. Strong mathematical and statistical skills, including linear algebra and probability theory.
7. Experienced with cloud computing platforms (AWS, AZURE) and GPU acceleration, Distributed computing knowledge is a plus.
8. Hands-on expertise in large language models (LLMs/LSTMs/BERT) that can perform complex reasoning. in few- and zero-shot settings by generating intermediate chain of thought (CoT) reasoning steps.
9. Skilled in collaborating with business leaders and transforming their business by building production ready data science solutions.
10. Strong analytical thinking and problem-solving skills to tackle complex challenges in generative AI. Ability to think creatively and propose innovative solutions.
11. Excellent teamwork and communication skills to effectively collaborate with cross-functional teams. Ability to explain complex technical concepts to both technical and non-technical stakeholders.
12. Ensured AI projects adhere to ethical and responsible AI principles, including data privacy and bias mitigation.
13. Enthusiasm for staying updated with the latest advancements in AI and generative models. Willingness to learn new techniques and adapt to evolving technologies and methodologies.

### WORK EXPERIENCE



#### Since Aug 21-Present     Accenture Solutions Noida as Manager AI

Managing teams of Data Science and AI in building, deploying, and monitoring modern AI solutions.

- Associating with Digital Business, IT, and external suppliers to ensure the company's data science needs are met and issue are resolved.
- Implement all the prompt engineering and task specific API in AWS labs, AWS-sage maker.
- Research and solutions: which includes Peek Under the Hood, Consume and Customize, Industry Use Cases, Generative AI tools demos in python using multiple large language models also fine-tuned custom dataset using Large Language models in code and no code approach.
  - Research Area Enhancing Insurance Agent-Customer communication through Advanced LLMs.

#### Significant Highlights:

- Building and deploying Generative AI App, enhancement using LLM- FlanT5, Falcon 7B, Mistral ChatGPT-3.5 and other LLMs using Langchain, Web scrapping.

### Project Worked on:

1. **AI -Tutor:** A one stop portal for automatic learning /training for all type internal and External along with Poll and Survey recommendation followed by Question bank.
2. **Precision Farming:** Use sensors to collect real-time data on soil conditions, weather, and crop health, allowing for precise and data- driven decision-making.

### Felicitated with:

Beyond Performance - Accenture Innovation GTIC Idea Implementation 2022 for Idea Prototype.

**(Feb2020 – Jun2021) FINICITY Technologies (A Mastercard Company) Mumbai as Data Scientist**

Lead a team of 8 (Data Scientists, Data Engineers, and DevOps Engineers) for building, deploying and maintaining mission critical NLP based Credit score (FICO) checking applications. Worked on Encoder only, Decoder only, Encoder-decoder Transformers, Attention Mechanism, LLMs, GEN AI and GANs. Performed analysis, concept implementation, and create detailed methodology descriptions for data research activities.

### Significant Highlights:

Successfully achieved a 100% defect reduction in the legacy application that was suffering a high defect density. which was transformed through effective feedback mechanism, mentoring and self-scaled goals.

**(MAR2016 – Jan 2020) HCL Technologies Limited Noida as Sr. Technical Lead- Data Science**

Developed Computer vision healthcare application to model deployment.  
Worked on AI microservices for energy sector for prediction analysis.

**(Mar2014 – Jan2016). Netlink Software Pvt Ltd Gurgaon/Bhopal(Xeeva Inc) as Data Engineer**

As a Data Engineer, using data mining techniques to make data representable and extract the insight from it which further use for Developing independent and complex Big Data applications/modules using **R and MAP Reduce Using (RHIPE<RHBASE) and Spark RDD API.**

**(May2010 – Sep2012) Mahindra Comviva Gurgaon as Lead Engineer.**

**(Jun2008 – May2010) I-Gate Noida as Software Engineer**

**Skill Used:** Oracle 8i, PL/SQL Development for GIS/GPS product, **Unix Scripting.**

### Personal Details:

Date of Birth:7/7/1985

Nationality: Indian

Passport Number and Validity: **X6838660(30/03/2033)**

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<https://www.linkedin.com/in/ajit-kumar-7a303713/>

<https://github.com/ds007kumar/DS007-Data-Scientist/>

### SOFT Skills:

#### Tools and Technical skills:

Artificial Intelligence (AI), LLMs, Gen-AI, Computer Vision, Advance NLP, Big Data Analytics • ChatGPT • Open ai, Databases, Unix scripting, Python programming, Machine Learning (ML), Power BI, Tableau, Docker, Kubernetes.

### EDUCATION

Master of Data Science (2023-2024) from **Deakin University, Australia.**  
PGP in Artificial Intelligence and Machine from **Texas McCombs in 2021.**

Bachelor Of Technology from **B.I.T, Meerut in 2006**

### CONFERENCES

- Accenture, India, Innovation GTIC – 2022.
- Generative AI Summit -2022

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### Certificates and Achievement:

[Generative AI with Large Language Models DeepLearning.AI](#)

<https://coursera.org/share/53d0a0760077ccb7a2520357dba4d827>

[Generative AI Great Lakes Institute of Management https://verify.mygreatlearning.com/verify/CVRGQKHV](#)

Applied Accelerated Artificial Intelligence certification by NPTEL <https://archive.nptel.ac.in/noc/Eceertificate/?q=NPTEL22CS83S3335015310183765>

Facilitation Skills Workshop

[Team Building Facilitation Team Building Facilitation](#)