

SUJAY KUMAR

NTT DATA - DATA SCIENTIST ENGINEER ADVISOR

Bangalore, Karnataka, India

Professional Biography

Experienced Data Scientist Engineer Advisor at NTT DATA. With over 10 years of experience in tech industry, I've worked on projects that enhance user experience and security. Proven expertise in designing and implementing AI-driven solutions for diverse applications, with a strong foundation.

Skills Summary

Industry / Domain Expertise

- Information Technology
- Banking (Wells Fargo)
- Supply Chain (UPS)
- E-commerce (Macys)
- Safety (Safe Fleet)

Skills

- Agentic AI
- Generative AI
- Prompt Engineering
- RAG
- AI/ML
- NLP
- LLM Models
- Azure AI Services
- Vector DB
- Similarity search
- Chatbot
- RAGAs – Evaluation
- Transformers
- Flutter
- Android
- Python
- Java
- Kotlin

Tools & Certification

- Hugging Face Agents
- LangGraph
- Crew Ai, Smolagent
- GPT 4
- Llama,
- Hugging Face
- Jupyter Notebook
- Pandas/Numpy
- TensorFlow
- Langchain
- Azure OpenAI
- AWS
- Docker
- Mongo db
- Pycharm

Highlights

- Agentic AI (creating and working with agents)
- RAG (Retrieval, Augmentation and Generation)
- Prompt Engineering
- Having sound knowledge of LLM models
- Large Language Model architecture – Transformer
- LSTM (Long Short-Term Memory) cell Architecture
- Deep Learning
- NLP
- Android Application development with JAVA & Kotlin

Key Experiences

DIGITAL ENGINEERING STAFF ENGINEER– NTT DATA

Aug 2024 - Present

- Participated in development of an intuitive web interface providing users a guided experience of wanting to ship something internationally, and the tool asking qualifying questions to ensure they meet regulatory requirements such that holds or returns are avoided.
- Participated in development and code review of Tachyon Platform with Wells Fargo Team. Tachyon is an umbrella platform that covers all AI/ML platforms used for HIGGS AI and Fargo Chatbot.
- Implemented Model Armour and prompt-guard to Tachyon Platform and integrated GCP reranker to improve the output.
- Led a team of data scientists and engineers in the end-to-end development of CAD-GPT a single agent system by using Gemini as LLM to read the technical CAD diagram and given Mentorship to junior team members.
- Conducted Many Technical Interviews to fill the open positions for Gen. Ai.
- Regularly participated in code reviews, mentored junior team members, and conducted internal training sessions on emerging machine learning techniques and best practices.

MODULE LEAD– CREATIVE SYNERGIES GROUP

Sep 2022 – May 2024

- Participated in end-to-end development of ABLE (Automatically Enforce Bus Lane Restrictions) which can automatically detect and issue violation notices to clear dedicated bus lanes resulting 30% improvement in travel time of passenger commute, using ML, DL, Docker, MLoPS, NLP, python etc.
- Spearheaded the development and deployment of PSA (Predictive stop arm) feature for Navigator application which Protect students from illegal stop arm violations while loading and unloading school bus. Using computer vision, NLP, python etc.
- Led a team of data scientists and engineers in the end-to-end development of a predictive maintenance system, resulting in a 25% reduction in equipment downtime and maintenance costs for safe fleet.
- Implemented predictive models for customer churn, providing actionable insights to the business development team and reducing churn by 20%.
- Regularly participated in code reviews, mentored junior team members, and conducted internal training sessions on emerging machine learning techniques and best practices

TECHNICAL SPECIALIST– ZENSAR

May 2021 – Aug 2022

- Collaborated with cross-functional teams to design and implement a recommendation engine for Macys.com, leading to a 25% increase in user engagement and a 20% boost in revenue.
- Implemented advanced machine learning algorithms, including deep neural networks, for anomaly detection in large-scale datasets, reducing false positives by 40%.
- Utilized cloud-based services (AWS) for scalable model training and deployment, optimizing infrastructure costs and ensuring efficient resource utilization

SENIOR SOFTWARE ENGINEER– HARMAN

Mar 2019 – May 2021

- Participated in end-to-end development and deployment of a real-time image recognition system, resulting in a 30% improvement in accuracy over the existing solution
- Developed and fine-tuned natural language processing (NLP) models for sentiment analysis, achieving a 95% accuracy rate and contributing to improved customer feedback analysis
- Conducted in-depth exploration data analysis (EDA) to identify key insights and trends, influencing strategic decision-making and product roadmap development

SOFTWARE ENGINEER- OUTTHINKING PVT LTD

Mar 2013 – Mar 2019

- I was an employee of Outthinking Android Division for 6 years with my role growing from that of a Software Developer to a Sr Software Developer. I worked on Unity 3D and Android platform on the domains of Connectivity and Messaging predominantly.
- Optimized application performance by conducting thorough code reviews, identifying and resolving critical performance bottlenecks, resulting in a 40% reduction in application loading time.
- Build CI/CD pipeline and increase code coverage from 50% to 85%.