

ANKIT SINGH

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EXPERIENCE

Associate Data Scientist – GenAI

Genzeon Technology Solutions, Pune, Maharashtra

March 2023 – Present

- Directed chatbot development, enhancing user interaction through **spaCy NLP and Langchain LLM** model training.
- Increased **data retrieval efficiency by 35%** by integrating chat functionalities with a variety of data sources, impacting documents, URLs, and databases positively.
- Achieved a notable 60% increase in database efficiency and reduced **OCR costs by 75%**, optimizing Azure Form Recognizer and enhancing database performance.
- Applied **RAG and Transfer Learning in LLM training**, training to refine chatbot query resolution capabilities.
- Created HIPAA-compliant medical claim review solutions utilizing Python and Azure, **elevating data security compliance by 40%**, demonstrating a strong commitment to adhering to regulatory standards.
- Initiated the integration of a **real-time speech-to-text** feature using web sockets, boosting chatbot communication effectiveness by 20%.
- Advanced **research and development in Langchain LLM, OCR, SLM and NLP**, enhancing data extraction and processing precision by 50%, reflecting a commitment to technological excellence.
- Influenced architectural decisions, promoting **microservice architecture**, which improved system modularity and maintainability by 40%.
- Oversaw the development and refinement of database schemas and audit processes, enhancing **data integrity and compliance by 30%** across major projects.

Trainee Engineer (Prototyping)

Bajaj Auto Ltd, Pune, Maharashtra

Aug 2019 – Sept 2021

- Designed and machined prototypes**, improving the efficiency of the Grinding Section's operations by 25%.
- Collaborated with senior engineers in **prototype testing and evaluation**, contributing to product development.
- Implemented over **5 kaizen and TPM initiatives**, streamlining processes and enhancing work efficiency.

SKILLS

- Frameworks/Tools:** PySpark, TensorFlow, Pandas, NumPy, Langchain, Transformer, Matplotlib, Seaborn, Scikit-Learn, Flask
- Data Science:** Knowledge of Supervised, Unsupervised Learning Models, Deep Learning Models, LLMs, SLMs
- Languages:** Python, Java, JavaScript
- Development:** React, Node.js, Flask, API Programming, Microservices Architecture, Git & GitHub
- Databases:** MySQL, PostgreSQL, MongoDB, Vector DB (Pg Embedding, Faiss, Milvus Db)
- Platforms:** Azure, Linux, Windows, AWS, Docker
- Soft Skills:** Problem Solving & Critical Thinking, Leadership, Public Speaking, Writing, Time Management

CERTIFICATIONS

- Microsoft Azure Fundamentals (**AZ-900**)
- Microsoft AI Fundamentals (**AI-900**)

EDUCATION

Post Graduate Diploma in Advanced Computing

2022-2023

Sunbeam Institute of Technology, CDAC, Hinjewadi, Pune

Bachelor of engineering: Mechanical Engineering

2019-2022

Maharishi Dayanand University, Rohtak, Haryana

PROJECTS

Train Reservation System (Java, React JS, MySQL)

PG-DAC

Developed a Train Reservation System using Java, React JS, and MySQL, implementing **JWT** for secure user authentication and deploying on **AWS with RDS, S3, and EC2** for comprehensive application management.