

# ARYAN SINGH

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## SUMMARY

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I'm an aspiring **AI Engineer** with a strong interest in building smart and data-driven solutions. I enjoy working with **Machine Learning, Deep Learning, and Data Science** to turn ideas into working models. Skilled in **Python, TensorFlow, PyTorch, NumPy, and OpenCV**, I like exploring areas like **NLP, Computer Vision, and Neural Networks**. Through my academic projects and personal work, I've gained hands-on experience in training models, analyzing data, and improving system performance. I'm always eager to learn, solve complex problems, and contribute to real-world **AI projects** that make an impact.

## EDUCATION

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Bachelor's in Computer Application | Manipal University Jaipur | CGPA - 8.0 | 2023-2026

Higher Secondary School Certificate | St.Fidelis.sr.sec.school, Aligarh | 2020-2021

Secondary School Certificate | St.Fidelis.sr.sec.school, Aligarh | 2018-2019

## EXPERIENCE

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**Python Developer Intern (Remote)** | Vigility Technologies Pvt Limited | may – July , 2024

- Developed and deployed an AI-powered chatbot using Python, improving user interaction and response automation.
- Implemented Natural Language Processing (NLP) techniques for intent recognition, entity extraction, and conversational flow.
- Integrated chatbot with APIs and backend services, ensuring scalable and efficient performance.
- Strengthened expertise in Python, AI/ML, Flask/Django, and chatbot frameworks, aligning with real-world business use cases.

## TECHNICAL SKILLS

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**Programming & Frameworks:** Python, PyTorch, TensorFlow, Hugging Face Transformers, scikit-learn, spaCy, Pandas, NumPy, OpenCV, Flask, Django, Langchain

**Generative AI & NLP:** Large Language Models (LLMs), Generative AI, Transformer Architectures (GPT, BERT, LLaMA, Mistral), Prompt Engineering, Fine-tuning Techniques (LoRA, QLoRA, PEFT), Retrieval-Augmented Generation (RAG)

**Data Engineering & MLOps:** Data Pipeline Design, Apache Airflow, Apache Spark, Databricks, Snowflake, Model Evaluation, A/B Testing, CI/CD, Model Versioning, Model Deployment

**Cloud & Infrastructure:** AWS, Google Cloud Platform (GCP), Microsoft Azure, Amazon S3, SageMaker, Vertex AI, Docker, Kubernetes, Containerization & Orchestration

**APIs & Backend Development:** REST APIs, FastAPI, Flask, Microservices, Backend Integration

**Databases & Storage:** Vector Databases (ChromaDB, FAISS, Pinecone, Weaviate, Qdrant), SQL, NoSQL, Neo4j (Knowledge Graphs)

**Monitoring & DevOps Tools:** MLflow, Prometheus, Grafana

**Extra:** Power BI, JIRA, Figma, n8n

## PROJECTS

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### **Build-a-Complete-Medical-Chatbot-with-LLMs-LangChain-Pinecone-Flask-AWS**

The product leverages Python, LangChain, and multiple external APIs to create an intelligent system capable of dynamic decision-making.

#### **Library Management System**

- Developed RESTful API using Django and DRF, implementing CRUD operations for books, authors, and borrowing management
- Integrated Celery for asynchronous report generation, creating detailed JSON reports tracking library metrics and borrowing statistics
- Designed a database schema with three interconnected models for automated inventory management of book borrowing
- Developed RESTful API using Django and DRF, implementing CRUD operations for books, authors, and borrowing management
- Integrated Celery for asynchronous report generation, creating detailed JSON reports tracking library metrics and borrowing statistics
- Designed a database schema with three interconnected models for automated inventory management of book borrowing

Skills: REST APIs · SQLite · Django · Python (Programming Language) · Back-End Web Development

#### **Vendor Performance Data Analytics End-To-End Project**

SQL + Python + Power BI + Reporting

## CERTIFICATIONS

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McKinsey Forward Program | [Link](#) (McKinsey & Company)

Accenture Nordics - Software Engineering Job Simulation | [Link](#) (Forage)

Career Essentials in Data Analysis | [Link](#) (Microsoft)

Career Essentials in GitHub Professional Certificate | [Link](#) (GitHub)

Career Essentials in Software Development | [Link](#) (Microsoft & LinkedIn)

TCS iON Career Edge - Young Professional | (TCS)