

Experienced Data Scientist with over 2 years of expertise in Generative AI, Machine Learning, and Deep Learning. Proven track record of translating data into actionable insights and developing production-ready solutions using ML-Ops tools. Passionate about driving innovation in the dynamic technology landscape.

EXPERIENCE

Data Scientist at Incedo Solutions Ltd

07-2022 — Present

- Developed an AI-powered advanced QA automation tool to generate functional test cases from JIRA user stories and convert those test cases into Gherkin steps and step functions, resulting in **36% increase in the productivity** of the QA lifecycle.
Technologies: Python, Langchain, Azure (Cognitive Search, Functions, OpenAI), Multi-AI agents, Vector databases, RAG, Fine-Tuning
- Implemented a suite of API endpoints to enhance the efficiency and productivity of the core business team, integrating vendor-provided core computation engines with comprehensive wrappers, and exposing it through a user-friendly UI tool for ease of use by business users.
Technologies: Python, SQL, Azure Databricks, PySpark, Azure Pipelines, Azure Storage, ETL Pipelines

Data Science Intern at Incedo Solutions Ltd

01-2022 — 06-2022

- Engineered an Automated Data Integrity Validation System for QA team to handle big datasets, compare raw and transformed data, ensuring data integrity with automated reports and a one-click validation process, resulting in **44% increase in productivity and 80% increase in efficiency**.
Technologies: Python, Azure Pipelines, SQL, PySpark, Azure Storage, ETL Pipelines, Azure Databricks

EDUCATION

BE in Computer Engineering, Thapar Institute of Engineering and Technology, Patiala,

2018 — 2022

SKILLS

- Generative AI:** LangChain, Llama Index, RAG, Multi-Modal RAG, LLM-Ops, Multi AI-Agents, Fine-Tuning
- Cloud & DevOps:** Azure OpenAI, AWS Bedrock, Azure Databricks, AWS SageMaker, Azure DevOps, Docker, CircleCI
- ML-Ops:** BentoML, Evidently-AI, Airflow, MLflow, DVC
- Programming:** Python, SQL, PySpark
- NLP & Deep Learning:** Text Classification, Named Entity Recognition, Sentiment Analysis, Transformers
- Machine Learning & Statistics:** Supervised and Unsupervised Learning, Ensemble Methods, Feature Engineering, Hypothesis Testing, PyTorch, Scikit-Learn
- Soft Skills:** Leadership, Analytical Skills, Strategic Planning, Time Management

PERSONAL PROJECTS

Automated Blog Generation System

Designed an advanced Blog Generator API using AWS Bedrock along with Multi AI agents to automate high-quality blog content creation, addressing the increasing demand for fresh content across various industries.

Tools & Technologies: AWS Bedrock, AWS API Gateway, AWS Lambda, AWS S3, AWS CloudWatch, CrewAI

AI Cookbooks and Proof of Concepts (POCs)

Engineered POCs and recipes for generative AI, LLM-Ops, and ML-Ops, focusing on integration, optimization, and practical applications of advanced tools. Regularly update these to reflect the latest advancements, ensuring current knowledge and practical skills.

Hate Speech Classifier

Implemented a sophisticated hate speech classification system leveraging natural language processing (NLP) to accurately identify and categorize textual content from various online sources into hate speech, offensive language, and non-offensive language categories.

Tools & Technologies: Python, CircleCI, Docker, AWS (S3, EC2, ECR)

GenAI Hub

GenAI Hub is a suite of AI projects designed for practical applications. It includes a data science notes summarizer from YouTube videos, an AI-powered Telegram bot, a multilingual AI assistant, and an ATS resume tracker. These projects enhance day to day activities efficiency.

Tools & Technologies: Python, Langchain, Llama-Index, ChainLit, StreamLit, Crew-AI, Vector Databases