

# Shresth Shukla

## Data and AI Engineer

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[🐙 Github](#) [📝 Medium](#)

## PROFILE

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Data & AI Engineer with 3+ years of experience building data platforms, GenAI solutions, and AI-enabled workflows across enterprise and public-sector environments. Experienced in Microsoft Fabric, PySpark, Azure AI, RAG systems, multimodal AI, and applied machine learning. Worked on large-scale climate data systems for UNFCCC through EY, including multilingual data integration, AI-powered automation, and GenAI solution development. Strong background in translating business problems into production-oriented AI and data solutions.

## PROFESSIONAL EXPERIENCE

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### Associate Consultant - Data and AI

10/2025 – Present  
Delhi, India

EY India

- Helping UNFCCC with CRT and NDC data integration and AI use cases on top of the climate data using Fabric and Azure AI services.
- Building Data and AI POCs for client demos.

### Senior Analyst

10/2024 – 10/2025  
India

EY India

- Built AI-enabled data engineering workflows on Microsoft Fabric using Fabric AI Functions to automate transformation and enrichment tasks across climate datasets.
- Implemented AI-enabled ETL pipelines and transformations to integrate new climate data sources for UNFCCC.
- Utilised Fabric AI capabilities to bring multilingual data into an existing complex data model.

### Analyst

08/2023 – 10/2024  
Delhi, India

Ernst & Young (EY) India

- Designed and prototyped 10+ GenAI solutions across public-sector use cases using Azure OpenAI, RAG architectures, prompt engineering, and agentic workflows.
- Built “**Sevak**”, a multilingual voice-based AI system capable of understanding speech across Indian languages and automatically filling English forms without human intervention using ASR, translation, and NLP pipelines.
- Built computer vision pipelines using YOLO, SAM, and OpenCV for image/video analytics, object detection, and segmentation tasks.
- Designed and implemented end-to-end data engineering workflows on **Microsoft Fabric and Azure**, leveraging Fabric Data Factory, Notebooks, Deployment Pipelines, AI Functions, and PySpark to ingest, transform, and prepare multilingual climate data for 130+ countries in UN-recognized languages, while collaborating with Power BI teams to convert complex KPIs into business-ready insights.
- Led cross-functional collaboration across 10+ contributors for Data & AI initiatives, participating in solution design, stakeholder discussions, and technical decision-making.

## EDUCATION

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### M.Tech in Software Systems

10/2023 – Present  
Distance Program  
(WILP)

BITS Pilani (Hyderabad Campus)

- Pursuing M.Tech in Software Systems, strengthening expertise in AI systems, software engineering, and scalable data-driven technologies.

### Bsc. Mathematics Hons

11/2020 – 05/2023

Delhi University (ARSD)

- Developed strong foundations in mathematics, statistics, and problem-solving, forming the analytical base for data and AI applications.

## PROJECTS

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### Multi Speaker Context Aware Podcast Generation [↗](#)

Built a multi-speaker AI podcast generation system using Medium blogs as source knowledge. Implemented semantic retrieval using LanceDB and contextual generation using Gemini. Generated natural voice conversations using ElevenLabs/Smallest AI with speaker-aware context handling.

### Declutter

Built an autonomous email intelligence [↗](#) workflow that reads emails, extracts key information, prioritizes content, and generates personalized digests using agentic AI workflows.

## SKILLS

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### AI / Generative AI (GenAI)

LLMs, RAG, LangChain, Langgraph, Azure OpenAI, Gemini, Conversational AI(Whisper and Bhashini), Agentic AI, MCP, Prompt Engineering, Fine-Tuning, Azure, Docker, AWS (Basic)

### ML / CV

Python, FastAPI, Scikit-Learn, PyTorch, YOLO, and ViT, Image Classification and Segmentation (SAM), OpenCV, Transformers

### Data Engineering

Microsoft Fabric [↗](#), Databricks, Data Factory, Lakehouse, Medallion Architecture, ETL/ELT Pipelines, Data Warehousing, Notebook Orchestration, Logic Apps, Datagaps, DQ, Azure Data Explorer, KQL, PySpark, SQL, Pandas, NumPy

### Product and Business

Product Management and Analytics, Product Features, **Prompt Engineering**, Business and Client Meetings, Presentations, Team Management, Leadership, Analytical and Logical Thinking, Event Planning and Hosting

## REWARDS

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### Client Extraordinaire

01/11/2024

EY

- Received a **client extraordinaire** award for excelling in client deliverables and contributing significantly to the Data and AI project for international client. Gained valuable experience in client project management and delivery.

### Edu-Forge Competition

16/04/2024

BITS Pilani

- Attended the ICONWIL Conference, competed with 60+ developers and **data scientists** from companies like IBM, Accenture, Cognizant, and TCS, and secured **1st prize** for a GenAI solution on Work-Integrated Learning.

### STOA RAIL

STOA

- Collaborated with 5 strangers on a train journey to ideate a business plan during a **30-hour trip** from Delhi to Bangalore. Secured **3rd rank** among 55+ candidates.

## INTERESTS

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**Chess** — 1300 ELO | **Writing and AI Community** [↗](#) — Write and simplify concepts around Data, AI, and emerging technologies through blogs and technical content via UselessAI.in [↗](#). Actively host and participate in AI community events and discussions in Delhi, engaging with builders, researchers, and practitioners.