

# VEDANSH KUMAR

+91-6280431467 | vedansh21.2000@gmail.com

Sujanpur, Pathankot, Punjab, India

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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## PROFESSIONAL SUMMARY

ML/GenAI Engineer with 5 years building enterprise AI systems across BFSI, Healthcare, Retail, and EdTech. Delivered production platforms generating Rs. 2+ crores revenue (medical AI) and \$100K+ per deployment (document intelligence for USA/Europe healthcare). Deep expertise in banking AI for UK/India institutions, GenAI (LLMs, RAG, Diffusion), agentic AI, MLOps, and compliance-grade Explainable AI.

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## TECHNICAL SKILLS

**Core ML & Data Science:** Python, SQL, Scikit-learn, XGBoost, Pandas, NumPy, TensorFlow, PyTorch, OpenCV

**Generative & Agentic AI:** LLMs (GPT, LLaMA), Stable Diffusion, LangChain, RAG, Agentic AI / Tool-Calling, MCP, BERT, NER, Prompt Engineering

**MLOps & Deployment:** AWS (Lambda, SageMaker), Azure AI, Docker, Kubernetes, CI/CD, Model Monitoring, Git

**BFSI & Fintech:** Thought Machine Vault, Transaction Categorisation, Underwriting, NBA

**Databases:** MongoDB, PostgreSQL, Neo4j, Vector DBs (Pinecone, FAISS, Weaviate)

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## PROFESSIONAL EXPERIENCE

**Sword** | AI Engineer | *Chennai, India* | *May 2026 - Present*

**AI Trainer Helper - Autonomous Agentic AI for Learning & Development Teams:**

- Building an autonomous AI agent that empowers corporate trainers by automatically scanning and assessing learner profiles to surface skill gaps and personalise recommendations.
- Automating the end-to-end training-plan creation workflow, sharply reducing the manual effort and turnaround time trainers spend developing individualised plans.
- Engineering agentic tool-use so the agent performs actions directly on the organisation's centralised CMS on the trainer's behalf - updating plans, assigning modules, and managing learner records.
- Stack: LLMs, agentic AI (tool-calling / function-calling), MCP, RAG, Python.

**Xebia** | Software Developer (AI/ML) | *Gurugram, India* | *Aug 2022 - May 2026*

**Medical AI & Government Compliance Systems:**

- Built compliance-grade Medical AI pipeline generating Rs. 2+ crores revenue in 3 months, automating extraction from 10,000+ documents with 95%+ accuracy and FDA-compliant XAI workflows.
- Developed prompt version control framework with 200+ prompts enabling model versioning and rollback.
- Built Enterprise Knowledge Repository (RAG) indexing 8,000+ documents for 5,000+ users with hybrid retrieval and <500ms query response.

**XParser - Enterprise Document Intelligence Platform:**

- Engineered document parser sold at \$100K+ per deployment to USA/Europe healthcare clients, processing multi-format documents (PDF, DOCX, PPTX, XLSX) with 95%+ accuracy.
- Built 3-layer AI pipeline (OCR + CV + LLM) for intelligent text, table, image extraction from unstructured documents.
- Powers medical AI generating Rs. 2 crores revenue and integrated across 5+ organizational workflows.

**Generative AI - Computer Vision | Global Retail Brand POC:**

- Developed Stable Diffusion Virtual Try-On POC for Fortune 500 retail brand enabling AI-generated apparel visualization with 90%+ attribute accuracy and <3s generation time.

**BFSI & Core Banking AI Systems**

Backend ML Engineer for UK-based SME lender and India-based retail bank managing Thought Machine infrastructure and AI/ML models.

**Custom Smart Contracts (Thought Machine Vault):**

- Developed Python smart contracts for CASA, Mortgages, Loans, Credit Cards with POS integration and transaction validation rules.
- Built data pipelines (MongoDB, PostgreSQL) for real-time banking analytics supporting 10+ demos.

**Transaction Categorization System:**

- Built hybrid (rule-based + ML) system with 3-level classification (Category → Subcategory → Merchant) using MCC codes, NLP, CO2 tracking.
- Achieved 92% accuracy on 500K+ monthly transactions across client platforms.

**NBA & Credit Decision-Support:**

- Implemented personalization engine increasing loan uptake by 25% and reducing underwriting review time by 40%.

### **Fraud Detection & Privacy-Preserving Chatbots:**

- Built fraud pipeline reducing false positives by 30% and privacy-preserving chatbots with PII masking and SLM deployment.

### **MLOps & Leadership:**

- Developed Airflow DAG pipelines for banking client, utilized MLflow for experiment tracking, established CI/CD for ML deployments.
- Mentored 8+ engineers, conducted 50+ technical interviews, led code reviews across teams.

**Xebia** | Technical Trainee | *Gurugram, India* | Oct 2021 - Aug 2022

- Built RASA conversational AI automating ~30% of support queries, worked on Kafka streaming and Spring Boot microservices.

### **Earlier Experience**

- Packt (Jan 2021): Led 6-member team building COVID-19 NLU chatbot with NER, awarded "Best Project".
  - CIACON (Sep-Dec 2020): Developed multiplayer Unity game with Photon networking for 50+ concurrent players.
  - Variety Innovation (Jan-Feb 2020): Worked on collaborative robotics and industrial automation.
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## **KEY PROJECTS**

### **Chomper - Open Source Document Parser MCP | Python, MCP, AI | 2026**

- Built open-source MCP server parsing 36+ formats for AI with TOON (40% token reduction) and semantic chunking. [GitHub](#)

### **Food Logger - AI Nutrition App | React, Node.js, AWS Lambda, Terraform | 2024**

- Full-stack AI nutrition app with dual LLM support, serverless AWS architecture, CI/CD via GitHub Actions. [Live App](#)

### **Mythscape - Indian Mythology Game | Unity, C# | 2021**

- Won Toyacathon 2021 National Hackathon (500+ teams) with story-driven game featuring custom combat and AI-driven NPCs.

### **Indian Sign Language Interpreter | Python, TensorFlow, OpenCV | 2019**

- Real-time sign-to-text converter with 88% accuracy, <200ms latency. Showcased at Innovation Punjab Summit 2019.
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## **EDUCATION**

### **B.Tech - Computer Science (AI & Data Science)**

SRM University, Sonapat, Haryana | 2018 - 2022 | CGPA: 8.17/10

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## **CERTIFICATIONS**

- Thought Machine Vault Core Professional Analyst
  - Thought Machine Professional Client Engineer
  - Databricks Generative AI Fundamentals
  - AWS Solutions Architect (Pursuing)
  - Azure AI Fundamentals (Pursuing)
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## **ACHIEVEMENTS & LEADERSHIP**

- Toyacathon 2021 Winner - Indian mythology game (500+ teams)
  - Innovation Punjab Summit 2019 - AI sign language interpreter
  - Conducted 50+ technical interviews for Python, ML, GenAI roles
  - Mentored 8+ junior developers in AI/ML and MLOps practices
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## **LANGUAGES**

Hindi (Native), English (Fluent), Telugu (Conversational), German (Basic)