

JAGPREET SINGH MITTU

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PROFESSIONAL SUMMARY

I help companies reduce AI application response times by 30% in 60 days using my Zero Latency approach

- AI/ML Engineer building NLP, RAG, semantic search, data pipelines and full-stack AI applications.
- Experience spanning recruitment technology, finance, IoT and agriculture; hands-on with Python, LangChain, spaCy, Azure and MERN. Focused on measurable application performance and practical deployment.

TECHNICAL SKILLS

Languages & full stack: Python, Java, C++, C#, JavaScript, MERN

AI / ML: Generative AI, NLP, RAG, spaCy, LangChain, Pandas, NumPy

Data & visualization: SQL Server, ETL, data pipelines, Pinecone, Power BI, Matplotlib, Seaborn

Cloud & tools: Azure, AWS, Linux, Git, Streamlit, Jupyter, VS Code, PyCharm, Raspberry Pi, ESP32

WORK EXPERIENCE

AI/ML Engineer — XOR Bit Infotech Pvt. Ltd.

Jun

2026–Present

- Developing AI-powered recruitment workflows for resume processing, semantic matching, candidate ranking and recruiter decision support.
- Built features for OGM PRIDE Showcase to present student projects, achievements, skills and employability profiles.
- Developing AagePeechhe finance workflows for transaction ingestion, categorization, reconciliation and financial insights.

AI and Machine Learning Intern — Sedha Consulting Pte Ltd

Feb 2026–

May 2026

- Built ML workflows for data preprocessing, exploratory analysis, model evaluation and presentation of technical results.

- Developed NLP solutions for resume/job-description analysis and a RAG-based GenAI HR assistant; exposed models through APIs and lightweight interfaces.

Technical Pre-Sales Specialist — Nio Network Inc.

Aug 2025–

Dec 2025

- Qualified prospects and translated cybersecurity, network and cloud infrastructure requirements into solution recommendations; supported proofs of concept.

Event Coordinator, Media and Outreach — ACM-W, University of Toledo

Sep 2024–

Jan 2025

- Coordinated a 5-person creative team and social media promotion with ACM and IEEE partners.

Data Engineering Intern — SoftSensor.AI

Aug 2024–Nov

2024

- Maintained ETL pipelines and monitored workflows using Argus Agent; improved database query performance by 10%.

Industry Immersion Seminar — Park Place Technologies

Jun 2023–

Aug 2023

- Built a Python/Microsoft Defender API tool to analyze device-integrity data for 100+ devices; designed a normalized database schema and automated verification.

PROJECTS

AI Talent Intelligence Platform

[https://github.com/JAGPREET234/AI-Talent-](https://github.com/JAGPREET234/AI-Talent-Intelligence.git)

[Intelligence.git](https://github.com/JAGPREET234/AI-Talent-Intelligence.git)

- Ranked 2,400+ resumes with 300-dimensional spaCy vectors; hybrid scoring combined cosine similarity, skill bonuses, industry boosts, yielding ~40% better relevance than keyword search.
- Built Streamlit dashboard; reduced NLP model load time from 30s to under 1s using caching.

AI-Driven Voice Interaction System

<https://github.com/JAGPREET234/SDP-Project>

- Developed five Python voice-control modules with DeepSeek API and Raspberry Pi; reported 25% improvement in response efficiency and 3+ hours stable expo operation.

GenAI and LLM Chatbot System

[https://github.com/JAGPREET234/genai-and-](https://github.com/JAGPREET234/genai-and-llms-project)

[llms-project](https://github.com/JAGPREET234/genai-and-llms-project)

- Integrated LangChain, Pinecone conversational memory, Google Books API function calling and Azure OpenAI image generation; deployed on Azure Static Websites and reduced latency by 20%.

PUBLICATIONS & TECHNICAL WRITING

Zero Latency AI: Speed Is The New Accuracy

Nov 2026

Co-Author with Harcharan Singh Mittu (Founder & M.D. Xor Bit Infotech) | Book in Development

Focus: AI inference optimization, latency reduction, cloud infrastructure, and production-ready AI systems.

EDUCATION

BS (Computer Science and Engineering), University of Toledo, Ohio, USA

May 2026

- CGPA: 3.36 / 4.00, Degree awarded by University of Toledo, Ohio, USA
- International 2+2 UG Program — Thapar Institute of Engineering & Technology, India
 - Years 1–2: Thapar Institute, India (2021–2023)
 - Years 3–5: University of Toledo, USA (2023–2026) including internship period of 1 year.

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT (Pursuing *)

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| 1. GATE (Graduates Aptitude Test in Engineering) | Mar 2027 * |
| 2. Be10X Career Accelerator Program | Mar 2027 * |
| 3. Tutedude Ethical Hacking | Dec 2027 * |
| 4. Tableau and Power BI Data Analyst Associate | Dec 2025 |
| 5. Coursiv AI Tools Program | Dec 2025 |
| 6. Udemy Full Stack MERN and GenAI | May 2025 |
| 7. University of Michigan Web Scraping with Python | Aug 2023 |
| 8. LinkedIn Learning Python Learning Path | Aug 2023 |