

JAGPREET SINGH MITTU

Pune, MH | +91-9205-081-844 | hijagpreet@gmail.com

LinkedIn: <https://www.linkedin.com/in/jagpreet-mittu> | GitHub: <https://github.com/JAGPREET234>

SUMMARY

Aspiring Software Engineer with hands-on experience in AI/ML, data engineering, and cloud-based applications. Skilled in Python, MERN, GenAI systems, and building voice-driven robotic solutions. Strong foundation in data pipelines, cloud services, and end-to-end project delivery through internships and academic projects.

EDUCATION

Bachelor of Science, Computer Science & Engineering

Toledo, Ohio, USA

- University of Toledo
- CGPA 3.36
- Academic coursework completed on May 1st, 2026

TECHNICAL SKILLS

- Programming: Python, Java, C++, C#, JavaScript (MERN)
- AI/ML: GenAI Tools, Pandas, NumPy, Seaborn, Matplotlib
- Data Engineering: SQL Server, ETL, Data Pipelines
- Cloud & DevOps: Azure, AWS, Linux, Git
- Tools: VS Code, PyCharm, Jupyter, Power BI
- Hardware: Raspberry Pi
- Other: LaTeX, AutoCAD & SolidWorks

CERTIFICATIONS

- Be10X, Dec 2025: Career Accelerator Program – Tableau, Power BI Data Analyst Associate (Pursuing)
- Tutedude, Dec 2025: Ethical Hacking (Pursuing)
- Coursiv, Dec 2025: ChatGPT, Claude, Dall-E, DeepSeek, Gemini, Jasper AI, Lovable, Mid-Journey, Stable Diffusion
- Udemy, May 2025: Full Stack MERN + GenAI
- University of Michigan, Aug 2023: Web Scraping with Python
- LinkedIn Learning, Jun–Aug 2023: Python Design Pattern, Python Projects, GUI Dev with Tkinter, Python Automation & Testing, Python Data Structures & Algorithms, Advanced Python: Language Features, Level Up: Python

ENGINEERING EXPERIENCE

AI & Machine Learning Intern — Sedha Consulting Pte Ltd

Feb 2026 – May 2026

- Designing and implementing end-to-end Machine Learning pipelines
- Performing data preprocessing, exploratory data analysis, and model evaluation
- Developing NLP-based systems for resume and job description analysis
- Building a GenAI-powered HR assistant using Retrieval Augmented Generation (RAG) techniques
- Deploying AI models through APIs or lightweight user interfaces
- Documenting technical work and presenting outcomes at regular review sessions

Technical Pre-Sales Specialist — Nio Network Inc.

Aug 2025 – Dec 2025

- Conducted initial technical pre-qualification of prospects
- Utilized entry-level network and security tools for information gathering (such as basic network scans).
- Assessed client requirements with a sound understanding of IT services including cybersecurity, network solutions, and cloud infrastructure.
- Conducted Proof-of-Concept (PoC) projects for customers on network and cybersecurity technologies

Event Coordinator (Media & Outreach) — ACM-W, Univ. of Toledo

Sep 2024 – Jan 2025

- Spearheaded social media strategies across LinkedIn, Instagram, and Facebook, to increase online visibility and engagement.
- Led event promotion campaigns across multiple platforms, expanding event reach by engaging with ACM and IEEE teams for collaborative opportunities.
- Coordinated with a creative team of 5 members to produce engaging media content that effectively communicated the organization's brand and mission.

Data Engineering Intern — SoftSensor.AI

Aug 2024 – Nov 2024

- Used Argus Agent for real-time monitoring, in-depth analysis, and optimization of critical data workflows.
- Assisted in the development and maintenance of robust data pipelines, implementing ETL processes to ensure efficient data flow.
- Contributed to the management and optimization of database systems, enhancing data storage and retrieval capabilities resulting in a 10% improvement in query performance.

Industry Immersion Seminar — Park Place Technologies

Jun 2023 – Aug 2023

- Developed a Python-based data collection tool leveraging the Microsoft Defender API, extracting and analyzing device integrity data for over 100 devices.
- Automated data retrieval and streamlined verification of connected device integrity, thereby improving efficiency for the Microsoft Defender case study team.
- Designed and implemented a normalized database schema to store and verify collected data.
- Collaborated effectively with cross-functional teams to ensure seamless data access and adherence to schema requirements, contributing to the successful completion of key project milestones.

PROJECTS

AI Talent Intelligence Platform | Python, spaCy, Streamlit, Pandas

[GitHub](#)

<https://github.com/JAGPREET234/AI-Talent-Intelligence.git>

- Engineered a hybrid semantic search engine to rank **2,400+ resumes** against complex job descriptions using **spaCy (en_core_web_lg)** 300D word vectors.
- Developed a **Three-Tier Ranking Algorithm** combining cosine similarity (semantic), keyword-based skill bonuses (+4%), and categorical industry boosts (+5%) to improve candidate relevance by ~40% over standard keyword search.
- Built a **full-stack interactive dashboard** with Streamlit, featuring real-time data visualizations (Skill Density bar charts), automated PDF/TXT job description parsing, and side-by-side candidate comparison tools.
- Optimized application performance using **Streamlit caching** to reduce resource-heavy NLP model loading times from 30s to <1s.

AI-Driven Voice Interaction System for Mini-Robot (Jan 2025 – Apr 2025)

[GitHub](#)

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

- ✓ Built 5 Python modules with voice-controlled robotic interaction: Improved response efficiency by 25%.
- ✓ Integrated DeepSeek API after evaluating Speechify, Azure AI Speech, Murf, Vonage, ChatGPT.
- ✓ Maintained 3+ hour stability during Senior Design Expo through rapid debugging.
- ✓ Integrated system with Raspberry Pi for robust device performance.

GenAI & LLM Chatbot System (Oct 2024 – Dec 2024)

[GitHub](#)

<https://github.com/JAGPREET234/genai-and-llms-project>

- ✓ Implemented function calling external APIs (Google Books).
- ✓ Added DALL-E 3 via Azure OpenAI for image generation.
- ✓ Used Pinecone + LangChain for NLP memory and performance optimization.
- ✓ Deployed on Azure Static Websites; reduced latency by 20%.