

# Manpreet Singh

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Programming Language – Python

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## Education

### Masters of Computer Science

Jan 2023 – Sep 2024

Dalhousie University – *Halifax, NS, Canada*

### Bachelors of Computer Applications

May 2023 – May 2019

Guru Nanak Dev University College – *Jalandhar, India*

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## Experience

### AI Solutions Engineer

Jul 2019 – Oct 2022

Tata Consultancy Services – *Chennai, India*

- Built an NLP chatbot using Rasa to streamline coding tasks, resulting in a 25% increase in developer productivity.
  - Engineered a Computer Vision application that transforms 2D architectural blueprints into 3D visual models, revolutionizing how architects and clients interact with plans.
  - Developed a GPT-3 powered bot designed to translate English text into SQL queries, featuring dynamic prompt engineering for optimized database interactions. The bot was specially tailored to interface with a custom database schema, providing a highly user-friendly and context-aware querying experience.
  - Conducted lectures on Python and Artificial Intelligence, mentored new joiners, and supervised project timelines and deliverables as part of the onboarding process for over 100 junior engineers.
  - Excelled in an initial 20-week intensive training program focused on AI and machine learning, securing a rank within the top 0.5% among a cohort of 1000 trainees. This strong foundation contributed to my subsequent contributions in machine learning and AI projects, including chatbot and Computer Vision application development.
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## Recognition and Awards

- Showcased a cutting-edge Neural Style Transfer project during the visit of India's Honorable Education Minister to Ignite, TCS, receiving high-level recognition for innovation in AI.
  - Secured first place in the Plasma Quiz GK college, showcasing extensive knowledge in science and technology.
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## Skills

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|-----------------------|------------------|--------------|----------------------|-----------------|------------------|---------------|-------------|
| Python                | JavaScript       | HTML5        | CSS                  | Git             | Machine Learning | Deep Learning | AI          |
| Neural Interpretation | Explainable AI   | SQL          | Database Interaction | NLP             | NLU              | Rasa          | Chatbot Dev |
| PyTorch               | Computer Science | Project Mgmt | Team Leadership      | Mentoring       | Onboarding       |               |             |
| Prompt Engineering    | Data Analytics   | LLMs         | OpenCV               | Computer Vision |                  |               |             |