

Prince Jain

✉ jain.69@iitj.ac.in | github.com/PrinceMaloo | [in linkedin.com/in/princejain123/](https://www.linkedin.com/in/princejain123/)

Education

•Indian Institute of Technology Jodhpur, Rajasthan

Bachelor of Technology in Chemical Engineering

CGPA: 8.57 out of 10.0

August 2021 - May 2025

Experience

•Ailusion Merosa Technologies Private Limited Bengaluru

July 2024 - August 2024

Machine Learning Intern

- Spearheaded the deployment of a virtual try-on model on Azure, ensuring **99.9% uptime** for production traffic.
- Designed and implemented custom load-balancing solution managing over **50 Azure VMs with 24 GB GPUs**, optimizing resource utilization and automating VM creation and deletion processes.
- Achieved **90% reduction in deployment time** from 60 sec to 10 sec by optimizing networking and redirection

•DĞ TAKANO

October 2024 - November 2024

Natural Scientist and AI Intern

- Worked on carbon storage system and measurements techniques for carbon dioxide emission from field
- Developed a carbon credits system which work for agriculture and forestry industries
- Presented AI based solution in the domain of Agriculture, Environment Science and Carbon Farming

Publication

•Real-Time Optimization of Post-Combustion CO₂ Capture: A Bayesian Framework with Wavelet Neural Networks

Projects

•Text to Image generation using Stable Diffusion

January 2024 - March 2024

Self Project - GenAI and Natural Language Processing

- Generated stable diffusion model integrating an encoder, decoder, and U-Net architecture, resulting in **35 % improvement of image generation quality**.
- Incorporated **CLIPEncoder** to create embedding for text prompts, resulting in increase of efficiency.

•YouTube Summarizer

July 2023 - October 2023

Self Project - Natural Language Processing

- Built Youtube Summariser using pre-trained **BERT, T5, and BART** from Hugging Face; compared results with **GPT-2 and gemini for zero-shot inference**.
- Assessed with **BLEU-4 and ROUGE-1,-2, and -L scores**; BERT base outperformed all models with top scores of **ROUGE-1 (0.592), ROUGE-2 (0.370), ROUGE-L (0.483), and BLEU-4 (0.195)**.

•Efficient URL Shortener

January 2023- April 2023

Self Project - Software Application, MYSQL and Jenkins

- Engineered URL shortener web service, integrated with MySQL for database management, handling over **10,000** URLs with response time of under **50ms** using Nodejs and Expressjs.
- Automated CI/CD with Jenkins, reducing deployment time by **40%** and improving database efficiency by **20%**.

Technical Skills

- Programming:** C, C++, Python, HTML, CSS, JavaScript
- Technologies/Frameworks:** Pytorch, Tensorflow, scikit-learn, HuggingFace, Pandas, Matplotlib
- Cloud Computing Skills:** Azure DataBricks, Azure ML and Azure Cloud

Achievements and Certificates

- Secured Department Rank 2** upon completion of 6th semester.
- Secured GATE Rank **All India Rank 351** in the 3rd year.
- Qualified in top **1%** among 1 million Joint Entrance Examination aspirants.

Positions of Responsibility

- Treasurer**
- Executive**
- Hostel Cultural Secretary**

MOOC

- Accenture's Data Analytics and Visualization Course.** 