

# Pradyumn Jain

New Delhi, India | Phno: +91 9654600601 | [pradyumn25jain@gmail.com](mailto:pradyumn25jain@gmail.com) | [LinkedIn](#) | [Github](#)

## SKILLS SUMMARY

Languages	Python, C++, C, JavaScript, HTML
Frameworks	Pytorch, Tensorflow, Torchserve, Triton, MongoDB, REST, Beam, SageMaker, FastAPI
Tools	Git, Github, Postman, SaaS, Linux, Heroku, Docker, NoSQL, Azure, Wassabi
Skills	Machine Learning, Computer Vision, Back-end, MLOps, Scrum, Prompt Engineering

## WORK EXPERIENCE

**Appy High** Gurugram  
Machine Learning Engineer Jun 2022 – Present

- Applied prompt engineering methodologies to optimize natural language processing models (**ChatGPT, Stable diffusion**) by designing and refining prompts that resulted in **50%** more contextually relevant outputs.
- Developed an image-to-image style translation pipeline with **facial detection**, segmentation, and diverse style generation using **GAN**, resulting in versatile output images with over **25 styles**.
- Developed and integrated an innovative pipeline that intelligently resizes and adjusts the orientation of images based on the detected facial landmarks to fit different templates directly enhancing the **conversion rate by 15%**
- Ensured reliable and scalable access for **25k+ users DAU** by Dockerizing and deploying the application to a cloud-based infrastructure using **GPU frameworks** like Triton and Torch Serve.
- Automated content styling system using Stable Diffusion, reducing content creation time by 80% for influencers and brands

**Appy High** Gurugram  
Machine Learning Intern Apr 2021 – May 2022

- Implemented database integration (MongoDB) for logging user activity and enabling analysis, while also creating an efficient API wrapper for ML models using **gRPC** client, reducing payload and **optimizing response time by 70%**.
- Utilized web scraping techniques using **Selenium** and **BeautifulSoup** to collect over 50k data points for training. Enhanced data quality by applying **OpenCV** and deep learning models for tasks like watermark removal and image upscaling.

**Bharat Electronics Limited** Greater Noida  
Computer Vision Intern Jul 2020 – Jan 2021

- Implemented an object detection based project that employed real-time video processing techniques using **YOLO** to detect and classify various activities with accuracy in real time by optimizing on **tensorRT**.
- Collaborated with a diverse team of experts to effectively achieve project goals through effective communication, coordination, and leveraging each individual's expertise.

**Diginique Techlabs** Noida  
Data Analyst Intern Jun 2019 – Aug 2019

- Identified, analyzed, and visualizes trends in complex data sets by finding correlations using **Numpy** and **Pandas**.

## PROJECTS

- **ImaginAI: (Real-time Recommendation, Database, Scraper, VectorDBs)** ([link](#)): (10000+ Documents) Stock Images Platform with Automated AI-Generated Image Scraping and rapid **Search Capabilities through keywords and images**  
**Tech:** Python, Bert, ResNet, MongoDB, Wassabi, Annoy, Vercel, JavaScript
- **AutoSummarizer: (Natural Language Processing, Data Ingestion, CI/CD, Serverless):** Efficiently distill lengthy text into concise summaries, enabling quick comprehension and information retrieval **Tech:** Python, **HuggingFace**, **AWS Lambda**
- **RedditPulse: ( Back-end, API, Intent Classification):** Retrieve latest news headlines across **10+** categories using Alexa-powered Reddit News Fetcher. **Tech:** Python, NLTK, Flask, Heroku, VoiceFlow

Other Notable Repositories Annoy Indexing ([link](#)),  
Open Source Contributions DeepConnectAI ([link](#))

## EDUCATION

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**Bachelor of Technology**, Computer Science Engineering  
Bennett University

CGPA 8.79

Jul 2018 - May 2022

Relevant Coursework: Database Management, Software Engineering, Algorithms, Artificial Intelligence

**Teaching Assistant: Artificial Intelligence and Machine Learning (Fall 2020)**

Clubs: **Google Developer Student Club**: Technology Specialist, [DeepConnectAI](#): Founding Member, **Bennett Open Source Society**: Program Chair

## ADDITIONAL

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**Certifications:** [Azure Fundamentals](#), [Continuous Delivery and DevOps](#), [MTA: Security Fundamentals](#), [Google Cloud Skills Boost](#), [Cloud Core by IBM](#)

**Awards:** **Winner**, HackCV, NIT Hamirpur, 2021, **Runner Up**, SmartUI, IIT Bombay, 2021, **Top 5**, Smart India Hackathon (University Round), Bennett University, 2020, **Top 10**, SRM Hackathon, Shree Ram University, 2019

**Publications:** [AI bias in social media](#), [Beginners Guide To Ensemble Learning](#)

**Languages:** Fluent in English(**IELTS Band 8.0**), Hindi