

# Piyush Sharma

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## EDUCATION

### Indian Institute of Information Technology, Una

Bachelor of Technology in Information Technology; CGPA: 8.1

Una, Himachal Pradesh

Nov 2020 – May 2024

### Queen Mary's Sr. Sec. School (CBSE)

Senior School Certificate Examination; Percentage: 90%

Ajmer, Rajasthan

May 2018 – Jun 2019

## EXPERIENCE

### American Express ☞ | Python, SQL, python-pptx

Jan 2023 – Jun 2023

Product Development and Management Intern

Gurgaon, India

- Developed a web-based, **globally scaled** automated solution for the Premium Card Member performance module.
- Streamlined the manual process, **automating** creation of **SQL scripts** for data aggregation and populating into PPT.
- Automated data aggregation, reducing workload by **92%**, ensured **99.8%** data accuracy.

### CVIT (IIITH) ☞ | PyTorch, Tensorflow, Pandas, Scikit-learn

Apr 2022 – Sep 2022

Research Intern (Remote)

Hyderabad, India

- Applied project-based learning to master deep learning concepts (ANN, MLP, RNN, CNN, ResNet, GAN).
- Studied convex functions to enhance DL model generalization, boosting team proficiency by **25%**.
- Leveraged experimentation to validate that **AVSP models**, with or without audio, achieve comparable performance.

## PROJECTS

### ProCards Insight | Python, MySQL, Hive, pptx

Feb 2023 – Jun 2023

- Led development of a web-based solution at American Express, using Python, SQL, and python-pptx library.
- Improved report generation and presentation with python-pptx, reducing time and enhancing efficiency.
- Recognized for technical proficiency and delivering accurate, visually compelling insights to stakeholders.

### Concrete Compressive Strength Predictor ☞ | Scikit-learn, Seaborn, NumPy, Heroku

Sep 2023 – Oct 2023

- Developed a **mobile-deployed** concrete compressive strength prediction app using machine learning.
- Enhanced real-world concrete strength **data quality by 64%** via data cleaning and reduction techniques.
- Increased **dataset size by 183%** with targeted data augmentation techniques.

### Anime Face Generator ☞ | PyTorch, GenAI, Deep Learning

Jul 2023 – Oct 2023

- Implemented a novel deep learning DC-GAN approach to produce high-fidelity anime faces.
- Trained the model on a large anime dataset, leveraging PyTorch for efficient implementation.
- Applied techniques to prevent mode collapse, resulting in a wider variety of realistic anime faces.

## TECHNICAL SKILLS

**Languages:** C, C++, Python, SQL, JavaScript, HTML, CSS

**Developer Tools:** Hive, Google Colab, Git, GitHub, Linux, Docker, DBeaver, MySQL

**Technologies/Frameworks:** Tensorflow, Keras, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib

**CS Core:** Database Management System, Operating System, Object Oriented Programming, Computer Networks

**Soft Skills:** Leadership, Problem Solving, Team Work, Public Speaking, Event Management

## CERTIFICATIONS

- Supervised Machine Learning:** Regression and Classification by **OpenAI, Stanford University** (Online).
- Advanced Learning Algorithms** by **OpenAI, Stanford University** (Online) on Coursera.

## ACHIEVEMENTS

- Qualified** GATE 2024 (Data Science and Artificial Intelligence) securing **All India Rank 3397**.
- Solved **300+** questions on various coding platforms.

## POSITIONS OF RESPONSIBILITY

- Conducted 1st inter-IIIT Photography competition as **President** of PicXcel (Photography Club) IIIT Una.
- Managed a team of 42 students as **PR Head** of Panorama (Institute Media Relation Cell) IIIT Una.
- Serving and supporting the Literary Club Eunoia as **Executive Member** for the past 3 years.