

# NACHIKETA PUROHIT

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## EXPERIENCE

Full Stack Developer Intern

RPA Technologies Pvt. Ltd.

📅 March 2021 - September 2021 📍 Bhopal

- Collaborated with the development team to design, develop, and maintain ecommerce websites using Node.js and Laravel.
- Contributed to the creation and integration of RESTful APIs to connect various components of the ecommerce platform.
- **Tools & technologies used:** ReactJS, NodeJS, Laravel, MongoDB, MySQL, Git

## PROJECTS

Skin Lesion Image Generation | [repo](#)

📅 April 2024

- Developed a conditional GAN to generate skin lesion images from unpaired sketch and label data.
- Demonstrated performance with FID of 0.00088, IS of 0.9999, and classifier accuracy of 58.68%.
- **Tools & technologies used:** PyTorch, WandB, Numpy, Pandas, Python

Sports Analysis using Computer Vision | [repo](#)

📅 April 2024

- Developed a sports analytics system using YOLOv5 and ByteTrack for real-time player and ball tracking in hockey, volleyball, and cricket.
- Implemented KMeans clustering for team segmentation and optical flow for camera movement estimation.
- Achieved accurate tracking and visualization by fine-tuning models on custom datasets, enhancing strategic analysis.
- **Tools & technologies used:** PyTorch, OpenCV, Numpy, Pandas, Scikit-learn

Audio Biometrics System | [repo](#)

📅 March 2024

- Employed a combination of traditional signal processing methodologies and Gaussian Mixture Model (GMM) algorithm to construct robust voice models.
- Achieved an average Equal Error Rate (EER) of 4.56%.
- **Tools & technologies used:** PyTorch, WandB, Librosa, Torchaudio, Python

Environmental Sound Classification | [repo](#)

📅 January 2024

- Implemented a hybrid architecture combining the Transformer model atop a Convolutional Neural Network (CNN).
- Attained a validation accuracy of 65%.
- **Tools & technologies used:** PyTorch, WandB, Torchaudio, Python

## EDUCATION

M.Tech in Artificial Intelligence

IIT Jodhpur

📅 July 2023 – Present CGPA:7.86

Master of Computer Applications

RGPV Bhopal

📅 July 2020 – April 2022 CGPA:9.58

B.Sc in Electronic Media

MCU Bhopal

📅 July 2017 – April 2020 CGPA:7.92

Class XII

RBSE Ajmer

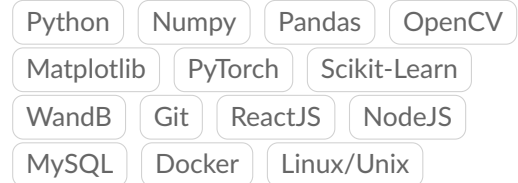
📅 June 2017 86.00%

Class X

RBSE Ajmer

📅 June 2015 90.50%

## SKILLS



## COURSEWORK

- Deep Learning
- Computer Vision
- Natural Language Processing
- Data Structures & Algorithms
- DL-Ops
- Software Engineering
- Database Management Systems

## ACHIEVEMENTS

- Ranked 5th in the Department for M.Tech. 1st Semester.
- Scored 95.82 Percentile in GATE CS 2023.