

Apratim Pandey

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EDUCATION

Bachelors of Technology in Computer Science with Artificial Intelligence and Machine Learning

Manipal University Jaipur • Expected 2027

- Relevant Coursework: Design and Analysis of Algorithms, Data Structures, Artificial Intelligence, Operating Systems, Relational Database Management System, OOP with Python, Cloud Computing (uptill 4th Semester).

CBSE 12th Grade

Poddar Brio International School • Mumbai • 2023 • 83%

ICSE 10th Grade

Gopal Sharma International School • Mumbai, Powai • 2021 • 93.25%

EXPERIENCE

Frontend Developer Intern

Reliquis Consulting

June 2024 – July 2024, Remote

- Completed an **intensive frontend development internship**, keeping in mind professional web design and development workflows.
- Mastered **Figma** for wireframing, prototyping, and **design-to-code** transitions across a set of **5+ guided tasks**.
- Executed *frontend development workflows* and built a strong practical knowledge in **HTML**, **CSS**, and **JavaScript**, applied through guided development tasks.
- Designed and developed a **responsive e-commerce website landing page** as a capstone project, demonstrating UI/UX and coding skills.
- **Collaborated remotely** with a 4-person team, **adhering to structured timelines** and industry-standard feedback cycles to **meet project deadlines**.

IEEE GENESIS WebDev Core Committee

IEEE MUJ

May 2024 - November 2024

- **Collaborated with a 6-person team** to engineer a **responsive website** for IEEE MUJ's flagship event using **JavaScript**, **React.js**, **Next.js**, and **Tailwind CSS**, achieving **25K+ user visits** during the event.
- **Designed** and *implemented responsive user interfaces* to ensure **seamless experience across devices**.
- Developed **reusable components** and optimized website performance to enhance scalability and maintainability.
- **Co-led development of a secondary page** incorporating event schedules, speaker profiles, and a **dynamic gallery**, utilizing the same technology stack.

PROJECT

SoundCanvas: Emotion-Based Music Recommendation using Machine Learning

Manipal University Jaipur • March 2025 - April 2025

- Engineered an **ML system** that matches user-provided text inputs with appropriate music clips, achieving **~65% accuracy** in mood alignment.
- **Fine-tuned a BERT model** on the **Go-Emotions dataset** (57,732 samples), using **Pandas** for **preprocessing** and **splitting** into **80/20 train-test sets**.
- **Extracted audio features** from 744 **EmoMusic** clips (via **Librosa**) and 24,369 **MAESTRO** clips (via **PrettyMIDI**) for **emotion mapping**.
- Trained a **Random Forest Classifier** to map valence-arousal coordinates to 5 discrete emotion categories (joy, sadness, calm, anger, neutral) using adaptive thresholding based on dataset distributions.
- Built a **real-time query interface** enabling users to input text and receive mood-aligned audio playback.
- Tools & Technologies: **Python**, **Pandas**, **Scikit-learn**, **Librosa**, **PrettyMIDI**, **PyTorch**, **BERT**, **Matplotlib** for data visualisation.

ACADEMIC EXPERIENCES

The Team Aperture

Aperture - The Digital Arts Society • December 2024 - February 2025

- Core member of **Team Aperture** and previously **Aperture JWT** (Junior Working Team), actively contributing to visual media and design initiatives.

- Represented Team Aperture as part of the **Media & Coverage Core Committee** for **TEDxManipalUniversityJaipur-2024**, leading *media capture* and *post-production efforts*.
- Designed the official **Team Aperture hoodie** blending **streetwear-inspired aesthetic** with influences from **metalcore**, **grunge**, and **cyber-goth** visual styles with team identity.
- **Designed the JWT T-Shirt**, which was **selected unanimously by a 250-person team** for its originality and relevance.
- Participated in **numerous event coverages**, handling both **photography and videography**, from conceptual planning to final edits.

Media Partner

Litmus - The Official Literature Club • March 2025 - April 2025

- Served as official **Media Partner** at the **flagship cultural fest** of LITMUS The Literature Club of Manipal University Jaipur.
- Led a **2-person media team** to plan, shoot, and deliver high-impact visual content across the event.
- **Directed** and worked as **Director of Photography (DoP)** for a promotional reel with a **24hour-turnaround time**; achieved **34K+ views organically** on social media.
- **Directed** and **edited** a **Documentary** capturing the essence of the festival, with a special focus on headline performance by the artist **Dhanji**.

CERTIFICATIONS

Python Essentials 1 & 2

Cisco • 2025

Introduction to Artificial Intelligence (AI)

IBM • 2024

Introduction to Front End Development

Meta • 2024

Design and Analysis of Algorithms

NPTEL • 2025

Programming Data Structures and Algorithms Using Python : ELITE Ranked

NPTEL • 2024

SKILLS

Fields of Interest: NLP, Artificial Intelligence Workflows, Machine Learning.

- **Programming:** Python, C/C++, Java, HTML5, CSS3, JavaScript, React.js, Tailwind CSS, Next.js
 - **Machine Learning & NLP:** Scikit-learn, PyTorch, Transformers, Matplotlib, Numpy, Pandas
 - **Creatives:** Adobe Photoshop, Premier Pro, Davinci Resolve, Fligma, Photography, Graphic Design, Cinematography.
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