Rupal Mishra

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Skills

- **Languages:** Python, C++, Java, MySQL, HTML, CSS, JavaScript
- **Technologies & Tools:** Figma, UX/UI, Framer, Python (NumPy, Pandas, Matplotlib)
- **Certifications:** Google UX/UI, Bits and Bytes by Google, NPTEL Cloud Computing

Education

- VIT Bhopal University (Expected Graduation - 2026) - B. Tech in Computer Science core — **CGPA:8.87/10**
- Doon International School, Bhubaneswar (2020-2021) - 12th Standard CBSE — **Percentage: 90.8%**
- DAV Public School Pokhariput (2018-2019) - 10th Standard CBSE — **Percentage: 97%**

Project Work

EvolkAI

- Developed a comprehensive online resource hub for Machine Learning, Deep Learning, and Computer Vision, attracting 1,000 visitors and demonstrating user engagement through the provision of practical code examples.
- This resulted in a **20% increase in website traffic** through a combination of **SEO optimization** and ongoing content updates.
- The platform was built using HTML5, CSS3, JavaScript, and Google Ads for promotion.

NoteNest

- Developed a website to facilitate note exchange among VIT students.
- Key Features: User authentication, note uploading and downloading, search functionality, and user-friendly interface.

C3V- Commerce Connect Central

- E-Commerce website to buy and sell products This resulted in a 15% increase in user satisfaction through a combination of improved model accuracy and interface enhancements.
- Technology: JavaScript, Python, Tailwind CSS, Prisma, HTML/CSS, UX/UI, Supabase

Achievements

- Selected among the **top 3 teams** in the **Industry Conclave Buildathon 2024** out of 36 teams and **offered a 2-month internship** with PreProd Corp, Bangalore.
- Secured 84/100 marks, earning the prestigious **Silver (Elite) Certificate** and was among the **top 5% students** in India in the **NPTEL Cloud Computing course by IIT Kharagpur.**
- Awarded certificate for publishing and presenting research paper on **Diabetes prediction** using **Machine Learning** models at **RTASCE-2023 Conference**
- Research paper based on **Machine Learning advancements in Polymer material creation** and **EEG characteristics** published **in EXAI Book** as Book Chapter, along with a group of 5 members

Notable Publications

- **A Prediction of Accuracy Analysis of Diabetes Risk using an AdaBoost Model:**

  Developed machine learning models using the Pima Diabetes dataset, achieving **80.88% accuracy** with an AdaBoost classifier to **predict diabetes in individuals** and was awarded certificate for publishing and presenting research paper at the **RTASCE-2023 Conference**
- Developed models achieving up to **95% accuracy** in predicting the **glass transition temperature of polymer materials**, significantly enhancing prediction precision and reliability. Additionally, created a Machine Learning framework utilizing various algorithms, including Random Forest, to achieve **96% accuracy** in **detecting eye-blink mistakes from imbalanced EEG data**, ensuring precise eye movement prediction.

Both the papers are published in the esteemed book **Explainable AI (XAI) for Sustainable Development Trends and Applications by Taylor & Francis**.

Responsibilities (Secretary: Software Development Club, VIT Bhopal):

As the Secretary of the SDC Club, I played a pivotal role in planning and organizing technical events, including Hackathons and Design and Develop events, enhancing our club's engagement and success.

Extracurricular and Soft Skills

- Participant, SIF-Space Hackathon 2023
- Millennium Fellowship Award 2022