Ujjwal Bajpai

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Education

- RV College of Engineering, Bengaluru, India
  Bachelor of Engineering (Electronics & Communication Engineering), GPA: 8.52/10.0   Jan 2023 – Jan 2027

- DAV Public School, Paradip, India
  Class 12th Boards: 91.8%   Class 10th Boards: 97.4%

Experience

- IFFCO (Indian Farmers Fertiliser Cooperative Limited), Paradip, India   Jul 2025 – Sep 2025
  IT Intern

  - Contributed to **web development tasks** for the HRMS portal, enhancing user interface and functionality.
  - Participated in **instrumentation and plant visits** to gain insights into industrial automation systems and their IT integration.
  - Developed a secure **login and informative website** for IFFCO using **HTML, CSS, and JavaScript**, improving accessibility to organizational details.

- RVCE ACM Student Chapter, Bengaluru, India   Jan 2025 – Present
  Member

  - Actively involved in organizing technical events and workshops, fostering a community of technology enthusiasts.

- Rotaract Club of RVCE, Bengaluru, India   Dec 2023 – Present
  Member

  - Contributed to various community service initiatives, developing leadership and teamwork skills.

Projects

- **Hyperspectral Crop Mapping using Deep Learning**
  Developed a **deep learning model** for classifying and mapping crop types using hyperspectral imagery, achieving enhanced accuracy. Leveraged **Convolutional Neural Network (CNN) architectures** and spectral feature extraction techniques. Aimed at enabling **precision agriculture** through automated crop health and distribution mapping.

- **IFFCO Login & Informative Website**
  Developed during my internship at IFFCO, featuring a secure **login system** and interactive modules for **About**, **Products**, and **Contact**. Built with **HTML, CSS, JavaScript, and JSON**, ensuring a modern UI/UX and modular, scalable codebase.

- **Comprehensive Analysis and Prediction System of EV Battery**
  Developed a system for **analyzing EV battery parameters** and predicting battery life, providing data-driven insights for performance optimization.

- **Noise Cancellation using Machine Learning**
  Designed an **ML-based pipeline** for real-time background noise suppression in audio signals. Utilized **deep learning models** to effectively distinguish between desired signals and noise for enhanced audio clarity.

Metaverse Website using Next.js
Built an immersive and responsive **web application** showcasing modern UI/UX for a futuristic metaverse experience. Developed using **Next.js, React, and Tailwind CSS**, deployed on Vercel with seamless performance and scalability.

Skills

- Programming Languages: C++, C, Python, HTML, CSS, SQL (MySQL)

- Tools & Technologies: Data Structures & Algorithms, Object-Oriented Programming (OOP), Data Science, Machine Learning (Regression, Deep Learning, CNNs), Web Development, Data Analysis, Operating Systems, Git

Certifications

- Database Management Systems (NPTEL Certificate)

- C++ Programming (Udemy)

- Fundamentals of Operating System (Udemy)

- C Programming (Infosys Springboard)

- BITS Pilani API Hackathon – Unstop Certificate (2nd Runner-up)

Achievements

- Secured **Second Runner-Up** at the **BITS Pilani API Hackathon 2025**

- Secured **Rank 913 with 98.9%ile** in COMEDK.

- Solved **220+ questions on LeetCode**, demonstrating strong problem-solving skills.

- Solved **60+ questions on Coding Ninjas** and earned 360 points.

- Achieved a scholarship of **1.7 lakh** from iffco for **10th(97.4)** and **12th(91.8)** performance