SANDEEP BALABANTARAY

Madhya Pradesh, India

📞 +91 9937084437 ✉ sandeepcool2036@gmail.com in linkedin.com/in/sandeep-balabantaray-69b60221b

Education

VIT Bhopal University **CGPA : 8.54**
Bachelor's in Computer Science and Engineering (B.Tech) *2022 - 2026*

Technical Skills

Programming Languages: Python, C++, HTML, CSS, JavaScript
AI & Machine Learning: Scikit-Learn, TensorFlow, Keras, PyTorch, Hugging Face Transformers
Specialization: Computer Vision, NLP, OpenCV, NLTK, CUDA
Databases & Backend: : MySQL, MongoDB, PostgreSQL
Web Development: Flask, Django, React.js, Tailwind CSS, REST APIs

Professional Experience

Madhya Pradesh Police **Dec 2024 - March 2025**
Frontend Web Developer & Database Manager Intern *Bhopal, Madhya Pradesh*
- Digitalized 50+ manual police forms into a web system using React and Flask, reducing paperwork by 70%.
- Developed a user-friendly interface, decreasing form processing time by 50%
- Managed database operations and automated Excel data extraction, reducing data retrieval time by 60%.

Projects : https://github.com/AxilBlaze

SkillCraft | *Flask, HuggingFace Transformers, GenAI, ReactJS* *https://course-craft-front.vercel.app/*
- Optimized Flask-based API performance, reducing response time by 40% through efficient model inference and caching.
- Implemented adaptive learning algorithms that dynamically updated learning paths based on user progress, improving course recommendation accuracy by 5%.
- Created a multimodal chatbot with 99% accuracy in comprehending and reacting to human input.

Course Finder| *Machine Learning, Flask, NLTK, HTML, CSS, JS* *https://coursecom.onrender.com/*
- Course recommendation utilizing Singular Value Decomposition (SVD) to analyze user preferences and course attributes
- This platform predicts suitable courses for each individual, providing a personalized and efficient learning experience.
- Engineered a sentiment analysis mechanism that processed over 2,000 course evaluations, yielding valuable insights into student satisfaction, ultimately guiding curriculum adjustments and enhancing the overall educational experience.

Medipred | *Machine Learning, Flask* *https://www.youtube.com/watch?v=QjwWLSOTGDc*
- Retrieved datasets from multiple online sources, then cleaned and preprocessed 10M+ records, including handling missing values, outliers, and normalization, enhancing ML model performance by 25%.
- Developed and deployed ML models for the MediPred platform, achieving 90%+ accuracy in predicting heart disease, COVID-19, cancer, diabetes, and vector-borne illnesses across 5,000+ records per dataset.

Co-Curricular

Smart India Hackathon **Nov 2023 - Dec 2023**
- Advanced through all internal rounds, placing among top teams out of 200+ participants with our AI driven solution.
- Led machine learning development for hackathon project, designing and deploying predictive models that secured qualification to national round

Amdocs Gen AI Hackathon **Nov 2023 - Dec 2023**
- Crafted a generative AI tutor powered by a custom ensemble of Mistral, GPT-1, and LLaMA models via Hugging Face. It uses a chain-of-thought-style reasoning system to intelligently resolve student queries.
- Earned national selection from a competitive pool of over 500+ students for developing an innovative GenAI-driven solution.

Software Development Club **Dec 2023 - March 2025**
- Organized 12+ technical workshops as Joint Secretary covering full-stack development while mentoring members in ML frameworks implementation.
- Managed club operations with Google Crowdsource partnership as Joint Secretary, boosting member engagement by 40% through community data collection initiatives

Achievements

- **AlgoUniversity:** Earned 2nd place out of 1000+ students in a programming camp focused on advanced graph theory
- **Coursera :** Stanford University & DeepLearning.AI Machine Learning Specialization.