Abhinav Pandey

Roll No.: 1RF22CS005
B.E.
Computer Science
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GitHub Profile
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Education

•RV Institute of Technology and Management, Bengaluru *2026*
B.E. in Computer Science CGPA/Percentage: 8.53

•Rajendra Vidyalaya *2022*
Intermediate, (ISC/ICSE), Jamshedpur CGPA/Percentage: 87.5

•Rajendra Vidyalaya *2020*
Matriculation, (ICSE/ISC), Jamshedpur CGPA/Percentage: 93.2

Experience

•Extion Infotech *Oct 2024 - Nov 2024*
Data Science Intern Bengaluru

- Developed and optimized machine learning models, improving predictive accuracy by 20%.
- Conducted data preprocessing, feature engineering, and model evaluation using Python, Pandas, and Scikit-learn.
- Collaborated in a team to implement AI-driven solutions for business analytics and decision-making.

Personal Projects

•Drowsiness Detection System *Feb 2025*
This is an AI-powered drowsiness detection system.

- Developed a real-time AI-powered driver monitoring system using OpenCV, Dlib, and Flask.
- Achieved 90%+ accuracy in detecting drowsiness and yawning, processing 30+ frames per second.
- Implemented live alerts and video streaming to enhance road safety.

•Image-To-Text-Converter *Oct 2024*
This is an image-to-text converter using cohere API and hugging face API.

- Engineered advanced AI applications leveraging Python, Streamlit, Cohere API, and Hugging Face Transformers to create an innovative image-to-text converter that improved content generation efficiency by 35%.
- Developed a real-time storytelling application with 90%+ accuracy for marketing and education.
- Improved content generation efficiency by 35%, processing up to 100 images per minute.

•AI-Powered Legal Document Analysis Tool *Sept 2024*
This legal document analysis tool extracts the key points in a document.

- Technologies and Tools Utilized: Python Programming Language, Flask Web Framework, Gemini Machine Learning Model, PostgreSQL Database System.
- Implemented a Retrieval-Augmented Generation (RAG) model, achieving 20% accuracy in extracting key legal terms.
- Automated document processing, saving 15+ hours of manual review per case.

Technical Skills and Interests

Languages: C++, Python, Java
Developer Tools: Visual Studio Code, Git
Frameworks: Flask, Django(basic)
Libraries: NumPy, Pandas, OpenCV, Scikit-Learn **Cloud/Databases**: AWS, SQL, MongoDB(basic)
Others: REST APIs, Machine Learning, Web Scraping, Data Structures & Algorithms
Areas of Interest: Gaming, Data Science

Coursework

•Python for Machine Learning
Completed a comprehensive course covering Python fundamentals, data preprocessing, machine learning algorithms, and model evaluation techniques. *Sept 2024*

•Cisco Networking Basics
Gained foundational knowledge of computer networking, including network protocols, TCP/IP, routing, switching, and security principles. *Nov 2024*