

# Abhinav Pandey

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## Education

**R V Institute of Technology and Management**  
*B.E. in Computer Science (8.53 CGPA upto 5th semester)*

*Dec 2022 – Present*  
*Bengaluru, Karnataka*

## Experience

### Data Science Intern

*Extion Infotech*

*Remote*

*Oct 2024 – Nov 2024*

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

## Projects

### AirMath: Gesture-Based Air Calculator [🔗](#)

*March 2025*

*Python, OpenCV, MediaPipe, Streamlit, CNN, NumPy*

- Developed an AI-based air-drawn calculator that detects hand gestures to perform real-time calculations.
- Implemented fingertip tracking and gesture-based controls for drawing, pen-up, and erase features.
- Integrated a CNN-based digit recognizer to accurately interpret handwritten numbers in real-time.

### Drowsiness Detection System [🔗](#)

*February 2025*

*Python, OpenCV, Dlib, Flask, Numpy, SciPy*

- Devised 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 [🔗](#)

*October 2024*

*Python, Streamlit, Cohere API, Hugging Face Transformers, PIL, OCR*

- 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%.
- Produced a real-time storytelling application with 90%+ accuracy for marketing and education.
- Improved image-to-text speed to 100/min, boosting efficiency 35%.

## Skills

**Languages:** Python, C++, Java    **Data Science:** Data Visualization (Matplotlib, Seaborn)

**Frameworks:** Flask, React.js, Django(basic)    **Developer Tools:** Visual Studio Code, Version Control(Git)

**Databases:** PostgreSQL, MongoDB, Redis    **AI/ML:** PyTorch, scikit-learn, Hugging Face, Model Deployment

**Others:** AWS, Vercel, Supabase, REST APIs, Web Scraping, Docker, Data Science

## Certifications

AdSage - Among the Top 8 Projects in CreatiVerse Rocketium Gen AI AWS Hackathon 2024

Cisco Networking Basics – Gained foundational knowledge of computer networking.

Tata Data Visualisation: Empowering Business with Effective Insights Job Simulation on Forage.

Python for Machine Learning: A comprehensive course covering fundamentals, etc.

Among the top 5000 ideas out of 25000 participants in BuildWithIndia Hackathon.