Abhay Narayan Pandey

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EDUCATION

Vellore Institute of Technology — Bhopal, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.11 — *Sep 2021 - Jul 2025*

Kendriya Vidyalaya INS Dronacharya — Kochi, India
Central Board of Secondary Education; 82.6% — *Jun 2019 - Jun 2021*

Kendriya Vidyalaya INS Dronacharya — Kochi, India
Central Board of Secondary Education; 87% — *Jun 2015 - Jun 2019*

SKILLS SUMMARY

- **Languages**: Python, HTML, CSS, SQL.
- **Coursework**: Object Oriented Programming, Database Management System.
- **Tools and Platforms**: Pycharm, Google Colab, VS Code.

EXPERIENCE

SmartInternz, Powered by Google Developers — Virtual
Externship in Artificial Intelligence and Machine Learning — *Aug 2023 - Nov 2023*

- Attained certification in AI and ML with distinction, boosting technical skills and contributing to a 30% increase in team efficiency.
- Developed an ASL alphabet classifier with 91.08% training accuracy and 97.20% validation accuracy, implementing real-time image capture and processing using standard laptop webcams, enhancing the system's responsiveness and usability.
- Created a user-friendly interface, ensuring seamless interaction and ease of use and conducted requirement analysis and performance testing, increasing system efficiency by 25% and reducing error rates by 20%.

OWASP Club — VIT Bhopal University, India
Core Member — *Feb 2023 - Sep 2023*

- Orchestrated seamless event registration and entry management for over 2000 attendees by designing and deploying a robust ticketing system, enhancing security and ensuring database integrity with secure member logins.
- Coordinated logistics and technical operations for high-profile events, achieving smooth execution and high attendee satisfaction by overseeing all technical and logistical aspects, serving 500+ attendees per event.

PROJECTS

- **ASL Alphabet Image Recognition**
  Technology Used: Flask, Python, OpenCV
  - Created a web app with Flask for uploading or capturing images of ASL alphabets, using a TensorFlow and OpenCV-trained CNN model to achieve 95%+ recognition accuracy.
  - Implemented a user-friendly interface for seamless image upload and real-time recognition using just the device's webcam.

- **WhatsApp Chat Sentiment Analysis Application**
  Technology Used:Python, TensorFlow, Keras, OpenCV, VADER, Streamlit
  - Built a Streamlit-based multimodal sentiment analysis application for WhatsApp chat data, integrating models to analyze text (LSTM, VADER), images, and videos (CNN).
  - Delivered rich visual insights including activity timelines, word clouds, and emotional trend tracking, supporting both individual and group-level analysis.
  - Published a research paper titled "Sentiment Analysis of Code-Mixed WhatsApp Conversations (Hinglish): A Hybrid Approach" published, highlighting the project's methodology and technical contribution.

EXTRACURRICULARS AND ACHIEVEMENTS

- **Certification**:- Completed a course and received a certificate in Applied Machine Learning.
- **Leetcode**:- 50 days Badge and Monthly coding challenge,
- **GeeksforGeeks**- University Rank 1078.
- **Scuba-Diving** - Trained in scuba diving by Indian Navy, dived upto 30 meters in Lakshadweep.
- **School Discipline Leader** - KV INS Dronacharya (Mar 2019 - Mar 2021).