

Abhishek Kumar Choubey

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Education

Thapar Institute of Engineering and Technology, Patiala *Expected 2026*
Bachelor of Engineering in Computer Engineering

Narayana Academy, Hyderabad *2022*
Passed 12th standard with 97.4%

R K Public School, Garhwa *2020*
Passed 10th standard with 91.1%

Experience

AIESEC Member, Thapar University, Patiala *Feb. 2023 – Feb. 2024*

- Collaborated with an international team to organise and execute leadership and cultural exchange programs.
- Developed strong communication, teamwork, and project management skills through various initiatives.
- Engaged in outreach, marketing, and partnership activities to expand AIESEC's impact.

Projects

MediLink *Aug 2024 — MERN, Gemini AI*

- Pioneered a healthcare app that automated follow-ups and patient feedback, improving engagement by 15%.
- Integrated an RAG-based model for treatment suggestions from symptom history with 85% accuracy.
- Designed a smart appointment system to streamline booking and reduce wait times.

SpeechIQ – AI-Based Speaker Intent Recognition *June 2025 — Python, PyTorch, Transformers*

- Engineered MFCC + CNN-BiGRU and Wav2Vec2 + CNN-BiGRU pipelines for spoken intent classification.
- Used Wav2Vec2 embeddings to enhance contextual modeling and robustness.
- Reached 95.5% validation accuracy; conducted ablation and error analysis to refine performance.

Skill-Sync – Full-Stack Resume Optimization Web App *July 2025 — Next.js, Tailwind CSS, Node.js, MongoDB*

- Developed a responsive web app analyzing resumes against job descriptions to generate compatibility scores.
- Implemented keyword extraction and matching for targeted resume improvement suggestions.
- Engineered JWT-based secure user authentication and session management for document and report access control.
- Created RESTful API endpoints for resume analysis, authentication, and contact communications using Node.js and MongoDB.

Technical Skills

Languages: C, C++, JavaScript, Python, HTML, CSS

Frameworks & Libraries: Node.js, Express.js, TensorFlow, Pandas, Numpy, Scikit-learn, NLTK

Tools & Platforms: Git/GitHub, VS Code, AWS, Docker, Jupyter, MS Word, Excel

Databases: MySQL, MongoDB, PostgreSQL, SQLite

Course Work: Data Structures, Algorithms, Operating System, Object Oriented Programming, AI, DBMS, Machine Learning, Software Engineering

Achievements

- Awarded the PM Scholarship for academic excellence as a child of a paramilitary personnel during 12th grade.