AMULYA BHARTI J

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EDUCATION

VIT Bhopal University   Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science – CGPA: 8.48/10   *Expected May 2026*
The Velammal International School   Panchetti, Tamil Nadu
CBSE 12th Standard – CGPA: 8.34/10   *July 2021*

PROJECTS

You Tube Summarizer - Project Link   *May 2025*
- Engineered a full-stack YouTube Summarization tool combining a Python-based Fast API backend and a Chrome extension to automatically summarize lecture videos, enhancing accessibility for students.
- Integrated YouTube Transcript API and advanced NLP (spaCy, NLTK, Transformers) to generate multilingual, customizable summaries in bullet and paragraph formats.
- Developed and deployed a Chrome extension using JavaScript, HTML/CSS, and Chrome Extension APIs, enabling seamless in-browser summarization on YouTube video pages.
- Enabled dynamic summary length adjustment and automatic topic identification, improving content clarity and comprehension for users; tested successfully on 15+ educational videos.

Magic Object Finder - Project Link   *April 2025*
- Built a full-stack educational image recognition app using Fast API, React, and PyTorch, enabling real-time classification of 50+ object categories with child-friendly facts and visual feedback.
- Deployed an EfficientNet B3 model pre-trained on ImageNet and implemented transfer learning techniques to enhance prediction accuracy across custom CIFAR-inspired classes.
- Engineered a child-safe, interactive frontend using React 18+, custom CSS animations, and drag-and-drop image upload, optimized for usability and accessibility in educational contexts.
- Integrated real-time face and object detection with confidence scoring, Orchestrated the end-to-end development process, including model training, backend API creation, and CORS-enabled frontend-backend integration; achieved smooth deployment and consistent local performance on test sets.

InstaAid - Project Link   *February 2025*
- Developed a multilingual medical emergency assistance platform using React.js, Material UI, and Leaflet Maps, supporting voice-guided first aid instructions in 7+ Indian languages.
- Implemented location-based hospital finder using geolocation APIs and Leaflet, enabling users to quickly identify and navigate to nearby Medical facilities in real time.
- Integrated a medical chatbot using decision-tree logic to handle first-level medical queries, enhancing user engagement and reducing information overload and Implemented voice-based medical guidance using Web Speech API.
- Built the application as a Progressive Web App (PWA) with responsive design, enabling cross-device functionality on mobile, tablet, and desktop platforms without native installation.

CERTIFICATIONS
- **Certified in Developing Generative AI Solutions with Azure OpenAI Service issued by Microsoft**
- **Oracle:** JAVA Foundation Associate, Database for Developers-Foundation by Chris Saxon
- **IBM certified Cybersecurity Analyst certification**
- **Microsoft AI Odyssey:(Issued by Microsoft, JUNE 2024)** Certificate of Completion
- **Bits and Bytes of Computer Networking –** Coursera

ACHIEVEMENTS
- **FINALIST – HackVega Hackathon 2025**
- **SEMIFINALIST – Nokia Accelerate Her in Tech 2025, John Hopkins University (JHU) HealthHack 2025**
- **Summer of Bitcoin 2025 – week 2 contributor**

WORK HISTORY AND EXPERIENCE

Infosys Springboard Cohort 4 – Program Trainee   *February 2025 – May 2025*
- Completed intensive training in Artificial Intelligence (AI), Machine Learning (ML), Natural Language Processing (NLP), Computer Vision, Python, and SQL. Earned certifications in Artificial Intelligence Primer and Foundation exam.

SKILLS AND ABILITIES
- **Languages:** C++ (with DSA), Java (Intermediate), Python (Intermediate), JavaScript, HTML, CSS
- **Frameworks & Libraries:** React.js, Node.js, Express.js
- **Databases:** SQL, MongoDB
- **AI & Machine Learning:** Computer Vision, Natural Language Processing (NLP), Machine Learning (ML)
- **Soft Skills:** Problem Solving, Communication