ASHWANI KUMAR BAGHEL

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IIIT Nagpur (Inside Campus), Near buttibori, Nagpur , 441108

EDUCATION

Indian Institute of Information Technology, Nagpur   **2022 - 2026**
- B.Tech in ECE with specialization in Internet of Things
- CGPA : 7.88

Kendriya Vidyalaya Guna
- Class 12th : 95.6 % [PCM]
- Class 10th: 93.2%

PROJECTS

E-commerce Fashion Chatbot | Langchain, Chainlit, OpenAI API, Redis Vector Database
- Designed a chatbot for an online fashion store to provide personalized outfit recommendations.
- Integrated GPT-3.5 to enable dynamic conversations and tailor suggestions based on user profiles and past interactions.
- Leveraged a vector database with embedded product details to enhance the accuracy of fashion recommendations.

PiVoice GPT Assistant | Python, OpenAI API, SpeechRecognition, Pyttsx3, gTTS
- Developed a voice-activated chatbot on Raspberry Pi using ChatGPT for real-time conversational interactions.
- Integrated speech recognition for voice input and text-to-speech (TTS) using Pyttsx3 and gTTS for natural voice responses.
- Utilized OpenAI API for intelligent dialogue generation and espeak for enhanced audio output.

COVID-19 Data Analysis | Python, Pandas, Matplotlib, Scikit-learn, Statsmodels
- Analyzed COVID-19 data using Python, Pandas, and Matplotlib to identify trends in case numbers, recoveries, and fatalities.
- Implemented machine learning models (Linear Regression, SVR) and time-series forecasting (ARIMA, SARIMA) to predict future case trends.
- Visualized insights using Matplotlib and Seaborn, ensuring clear interpretation of COVID-19 patterns.

SKILLS

- **Programming Languages:** Python, C/C++, HTML, CSS
- **Tools & Frameworks:** Git, OpenCV ,Pandas, NumPy ,Matplotlib , PyTorch
- **Coursework:** Data Structures & Algorithms (DSA) , Fundamentals of Machine Learning , Introduction to Object Oriented Programming, Operating Systems, Computer Networks, Database Management System (MySQL ,SQL ,MongoDB).
- **Essential skills**: Public Speaking , Professional Writing , Team Collaboration , Problem-solving, Adaptability, Analytical Thinking , Innovation & Creativity.

ACHIEVEMENTS

- **Grand Finalist -** Innovation Oasis Challenge (Pitched Learnpreneur, a website connecting freelancers, students, and mentors to promote skill development and project collaboration) .
- **Codeforces -** Specialist | Max Rating: 1485 | ID: rangey_bhakt
- Solved 400+ DSA questions across all platforms like GFG , leetcode.
- **Certifications** : Communication , Python .

VOLUNTEERING

- Core Member
. IOTICS club - IOT club in IIIT Nagpur
- Member
Pahal Committee - At IIIT Nagpur (social welfare committee for children of rural areas).