

Manish Vishwakarma

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Department of Information Technology

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2021 - 2025	B.Tech - IT	Guru Ghasidas Vishwavidyalaya, Bilaspur	70.8%
2018 - 2020	Class XII (BSEB)	Gram Bharti College, Ramgarh	76.0%

WORK EXPERIENCE

Data Analytics Intern | Vagus Hospital, Bilaspur | 🌐 (Sep'24-Dec'24)

Objective	Automated the extraction of 2-5 years of healthcare data from a website that allowed 3-month downloads at a time.
Approach	<ul style="list-style-type: none">Use Requests&BeautifulSoup for static content scraping, and Selenium for dynamic content (JavaScript-loaded).Set the Chromedriver path and initialize the Service object to manage Chrome browsers with Selenium.After storing the data in the database, manual analysis in MS Excel was time-consuming and repetitive.Tools: data analysis with Python libraries (Pandas, Numpy, Matplotlib, Seaborn, and Bokeh) for efficient insights.
Outcome	<ul style="list-style-type: none">Enabled seamless extraction of multi-year data, reducing manual effort and improving efficiency.Automated data analysis improved efficiency, saved time, and provided consistent insights effortlessly.

Chatbot Developer (SIH23) | PUNJAB GHAR GHAR ROZGAR | 🌐 (Nov'23-Dec'23)

Objective	Developed a GPT-3.5 chatbot to enhance the platform-usability, making it more interactive for job seekers.
Initiative	<ul style="list-style-type: none">Enhance PGRKAM by developing an AI-powered chatbot to improve the engagement of seekers and employers.enhancing user engagement and streamlining access to employment services for job seekers and empoyment.This enhancement provides personalized assistance, making the platform more intuitive and efficient.
Outcome	Improved user experience with real-time responses, natural language accessibility,& effiecient resource navigation.

KEY PROJECTS

Smart - Harvest | Course Project-III | Mentor: Prof. Ankit kumar | 🌐 (Dec'24 - Apr'25)

- Developed a machine learning model for crop and fertilizer recommendation by analyzing soil nutrients (NPK), temperature, humidity, and rainfall data across various regions, enhancing agricultural productivity.
- Integrated real-time temperature and weather data to provide accurate regional suggestions, optimizing crop yield, and resource.
- Implemented a crop disease detection system using Groq AI for image-based analysis, identifying common plant diseases, and recommending suitable preventive measures.

Career Pathways Prediction Using ECG and EEG | Course project-II | Mentor: Prof. Ankit kumar | 🌐 (Aug'24 - Nov'24)

- Analyze brainwave and heart rate data using ECG and EEG sensors to predict career interests and pathways.
- Applied machine learning models, achieving an accuracy of 85% in mapping physiological signals to career preferences.
- Tools and Technologies: Python, Jupyter notebook, vscode and logistic regression, random forest machine learning algorithms.
- Personalized **career recommendation** based on unique brain waves and emotional profiles.

Wafer Fault Detection System | Course Project-I | Mentor: Prof. Ankit Kumar | 🌐 (Dec'23 - Apr'24)

- Developed a **machine learning model** to identify **faults** in **semiconductor wafers**, ensuring quality and minimizing defects.
- preprocessed data to address missing values, outliers, and imbalances while engineering features to enhance model performance.
- Tools and Technologies: Python, Scikit-learn, Pandas, Matplotlib, Vs Code, Jupyter Notebook for analysis and visualization
- Achieved **high fault** detection accuracy, **reducing** false positives. Enhanced manufacturing efficiency by identifying defects early.
- Achieved **94%+** accuracy using **Random Forest**, **XGBoost**, and **Decision Tree**, optimized with **GridSearchCV** and **K-Fold**

TECHNICAL SKILLS

- Programming Languages:** C++, Python, R, SQL
- Software and Utilities:** Vs Code, Git, GitHub, HTML, CSS, L^AT_EX, Excel, MySQL, Power BI, Tableau, MongoDB
- Libraries & Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn, Streamlit, flask
- Data Sceince:** ML and DL, NLP, Big Data(Hadoop, Spark, and Apache Flink), Docker
- Cloud:** Heroku, AWS, GCP

RELEVANT COURSES

Generative AI: OpenAI, Gemini	Introduction to Machine Learning	Introduction to Artificial Intelligence
Probability and statistics	Linear Algebra and ODE	calculus optimizations
Introduction to DBMS	Introduction to cloud	Data Structures and Algorithms [†]

EXTRA-CURRICULAR ACTIVITIES

Technical	<ul style="list-style-type: none">Achieved 1st rank in final round of Smart India Hackthon 2023 among 500+ teams from Engineering Colleges.
Credential	<ul style="list-style-type: none">completed a 25-hour training program on "Ethical Hacking and Penetration Testing" conducted by C-DAC, NOIDA under the Cyber Gyan Project, supported by the MEIT, Government of India.Completed 6-months+ of Data Science training, equivalent to a 6-months internship experience From pwskills.
Volunteer	<ul style="list-style-type: none">SIH2K24 Lead 10+ volunteers, managed logistics, coordinated teams, assisted participants, and ensured smooth execution.