

# Manish Vishwakarma

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

Chatbot Developer (SIH23) | PUNJAB GHAR GHAR ROZGAR | [🔗](#)

(Nov'23-Dec'23)

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

## 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<sup>A</sup>T<sub>E</sub>X, 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

<sup>†</sup>(online) \*ongoing)

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 <sup>†</sup>

## EXTRA-CURRICULAR ACTIVITIES

Technical	<ul style="list-style-type: none"><li>Achieved <b>1st</b> rank in final round of Smart India Hackthon 2023 among <b>500+</b> teams from Engineering Colleges.</li><li>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.</li><li>Completed 6-months+ of Data Science training, equivalent to a 6-months internship experience From pwskills.</li></ul>
Credential	
Volunteer	<ul style="list-style-type: none"><li>SIH2K24 Lead <b>10+</b> volunteers, managed logistics, coordinated teams, assisted participants, and ensured smooth execution.</li></ul>