

HARSHITA TIWARY

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PROFESSIONAL SUMMARY

Final-year B.Tech Computer Science student and aspiring Software Developer with a solid foundation in Data Structures, Algorithms, and backend development. Experienced in designing and managing ETL pipelines, data scraping with Python, and developing interactive Power BI dashboards for real-time reporting. Skilled in building scalable backend systems, integrating APIs, and delivering automation-driven solutions. Passionate about leveraging AI/ML for distributed systems and process optimization. A fast learner and collaborative team player, committed to delivering production-ready, high-quality software in dynamic, cross-functional environments.

PROFESSIONAL EXPERIENCE

Business Intelligence Analyst Intern

RIG Global Solution

June 2025 - August

- Designed and managed Power BI dashboards integrated with CRM and MS365 (Excel, SharePoint, Teams), enabling real-time reporting, reducing manual effort, and improving data-driven decision-making by 5%.
- Compiled, cleaned and analyzed datasets to deliver client-ready reports and actionable insights.
- Refactored and optimized Python (Selenium, BeautifulSoup) scripts, enhancing data accuracy and automating workflows.
- Utilized SQL, Excel, and Looker Studio for reporting, visualization, and ad-hoc analysis.

HTML Writer Intern

Sanfoundry

May 2024 - July 2024

- Crafted clean, modular HTML within WordPress to structure educational content, ensured full scalability and delivered optimal performance.
- Collaborated with cross-functional teams to identify and resolve technical issues, improved system reliability by 40%, and ensured compliance with institutional standards.
- Applied LaTeX for complex scientific formatting, enhanced the clarity and improved the visual quality of technical documentation by 80%.

Information Technology Intern

BasketHunt Pvt Ltd

August 2023 - October 2023

- Collaborated with a dynamic team to design and deploy a student portal using Moodle, delivered scalable features such as registration, certification, and feedback, and achieved a 15% increase in user engagement.
- Customized frontend components using HTML, CSS, and JavaScript to meet client specifications, improved overall system functionality by 25%, and enhanced user experience.
- Contributed to debugging, added new features, and handled routine system maintenance, which included bug fixes, performance tuning, and deployment support—demonstrated core System Development Engineer skills.

PROJECTS

Plan B AI ([Link](#))

May 2025 - June 2025

Python, Django, React, Postgres, Machine Learning - MLP, Transformers, LLM

- Developed a ReactJS frontend with a PostgreSQL backend to manage dynamic user profiles and career-related data for over 500+ students.
- Built an ML-based recommendation system using student profiles, interests, and personality traits—achieved 80.67% accuracy by applying an MLP classifier and utilizing Python libraries (Pandas, encoders, scalers) for data preprocessing and model training.
- Integrated job APIs to align career suggestions with in-demand roles and market-relevant skills.
- Implemented an LLM-powered virtual career counselor to handle real-time Q&A, offering conversational guidance tailored to users' goals and interests.

Email Marketing Campaign ([Link](#))

March 2025 - April 2025

Python, Data Wrangling, XGBoost Classifier, Neural Network (Keras), SVM (Differential Evolution)

- Performed data wrangling and exploratory analysis on multi-table marketing datasets to prepare structured data for modeling.
- Developed a Differential Evolution–SVM hybrid model, increased click-through rate (CTR) by 50% compared to the baseline approach.
- Built and evaluated multiple models, including XGBoost, Random Forest, Neural Networks, and SVM, and achieved 86.6% cross-validated accuracy using a custom CTR simulation.

SKILLS

- Programming Languages:** Java, Python
- Frameworks / Libraries:** React, Node.js, Django, Scikit-learn, Pandas, XGBoost, DEAP, Keras, NumPy, Matplotlib, Seaborn, Large Language Models (LLMs)
- Concepts:** Software Engineering, Data Structures and Algorithms, Data Analysis, Machine Learning, Artificial Intelligence, Extraction, Transformation, Load(ETL)
- Databases:** MySQL, PostgreSQL, MongoDB
- Tools:** Jupyter Notebook, VS Code, Power BI, LaTeX, Git, GitHub, Microsoft365

EDUCATION

EDUCATION ARKA JAIN UNIVERSITY, Jamshedpur, Jharkhand

Bachelor of Technology- Computer Science and Engineering

2022-2026

CGPA - 9.47

ACHIEVEMENTS AND CERTIFICATIONS

- Solved 500+ Data Structures and Algorithms problems on competitive programming platforms.
- Ranked in the top 29.69% globally among 35,000+ participants on GFG. ([Link](#))
- Certification: Getting Started with Enterprise-grade AI. ([Link](#))