

Tarun Janapati

Recent Graduate with diverse technical experience in engineering and data analysis. Proven skills in equipment maintenance, project management, and software development. Proficient in programming languages, web development, database management, data analysis, machine learning, and data visualization. Eager to leverage technical expertise and contribute to innovative solutions in the industry.

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WORK EXPERIENCE

Saarloha Advanced Materials Pvt Ltd, Pune, India

Graduate Engineer Trainee

July/2022 – September/2022

- Conduct inspections, preventive maintenance, and troubleshoot equipment issues to enhance productivity and efficiency.
- Leverage in-depth understanding of Steel melting shop equipment to collect and analyze data, identifying areas for improvement.
- Collaborate with cross-functional teams to ensure equipment safety, optimize performance, and streamline operations.
- Acquire hands-on experience in industrial processes, including metallurgy, production planning, and quality control.

Simon Recreation Center

Building Maintenance Student worker

February/2024 – May/2024

- Managed custodial operations and routine maintenance tasks, including cleaning, disinfecting, and restocking supplies, to ensure the cleanliness and functionality of facilities within the Simon Recreation Center.
- Conducted regular inspections of equipment and facilities, identifying potential issues promptly and executing repairs or coordinating with appropriate personnel to maintain optimal operating conditions.
- Assisted with special projects and events as needed, including setting up and breaking down equipment and providing support to patrons.
- Maintained a positive and professional demeanor, providing excellent customer service to patrons and colleagues alike.

EDUCATION

Saint Louis University

Master's Degree - 3.9 GPA

Graduation: May/2025

- Master's in Analytics

Visvesvaraya National Institute of Technology

Bachelor's Degree - 7/10

Graduation: May/2022

- BTech in Mechanical Engineering

PROJECT

Haven of Grace - Client and Health Management System

May/2024 – August/2024

- Designed and implemented various forms to collect and manage client, maternal, and child demographic details.
- Developed dynamic features, including the ability to add and delete child details sections using JavaScript.
- Integrated modals for editing client data, ensuring a seamless user experience.
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Utilized MongoDB for efficient data storage and retrieval, focusing on handling complex data structures.

- Enhanced application security by managing authentication and error handling processes.

AI-Powered Resume Builder Profile

December/2023 – August/2024

- Developed a full-stack application that allows users to create profiles and generate professional resumes.
- Integrated Google AI (Gemini) to automate the generation of summaries and descriptions, enhancing efficiency.
- Achieved a 5x reduction in the time required to build a resume compared to traditional methods.
- Implemented a clean and intuitive user interface using React and TypeScript.
- Managed data storage and retrieval with MongoDB, ensuring smooth and fast performance.
- Deployed the application at <https://boronatom.me>, making it accessible to users.

SteamCalci - Steam Properties CalculatorPersonal Project

December/2022 – February/2023

- Designed and implemented algorithms to calculate steam properties based on user inputs such as pressure and temperature.
- Developed a user-friendly interface for inputting data and displaying results.
- Integrated visualizations to represent steam properties across different states, aiding in better understanding and analysis.
- Ensured the accuracy of calculations by validating against standard thermodynamic tables.

Analysis of Factors Influencing Attitudes Towards DebtSLU

August/2023 – October/2023

- Explored the relationship between sociodemographic characteristics, financial literacy, and attitudes towards debt.
- Used statistical techniques, such as factor analysis and regression modeling, to identify key factors influencing these attitudes.
- Investigated the impact of financial literacy programs on individuals' perceptions of debt.
- Provided insights into how financial institutions and policymakers can tailor strategies to promote responsible borrowing and manage debt effectively.

Analysis of Human Resources Data for Employee TurnoverSLU

August/2023 – October/2023

- Analyzed a comprehensive dataset of 14999 employees' data to uncover patterns and trends associated with employee turnover.
- Utilized statistical software (SPSS) to conduct rigorous statistical tests, identifying significant factors influencing employee departures.
- Developed predictive models to forecast the likelihood of employee turnover based on identified factors, enabling data-driven decision-making.

Design and Optimization of Thermoelectric GeneratorsNIT Nagpur

July/2021 – May/2022

- Enhanced power output and efficiency of thermoelectric generators by 10% through analysis and optimization of design parameters.
- Developed novel design strategies to improve the performance and reliability of the generators.
- Published groundbreaking findings in a peer-reviewed journal (Materials Today Proceedings, Elsevier), highlighting the advancements and potential applications of the optimized generators.

Certifications

- IPDIMS'22
- NIT Rourkela November/2022 – /
- Introduction to Data Analytics
- Simplilearn February/2023 – /
- Hero Campus Challenge Season 7
- Hero MotoCorp August/2021 – /

Involvements

- Student Representative, Training and Placement
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VNIT May/2021 – September/2021 - Coordinated and facilitated training programs to improve students' technical skills and industry preparation. - Actively participated in campus placement drives, networking with businesses to attract appropriate job opportunities. - Conducted mock interviews with professors to help students prepare for job interviews. - Served as a liaison between students, faculty, and the Training and Placement Cell, facilitating communication and collaboration.

- Volunteer, AXIS'20
- VNIT January/2020 – March/2020 - Assisted in planning and executing technical competitions, workshops, and exhibitions during AXIS'20. - Collaborated with volunteers to facilitate seamless event operations and provide support to attendees. - Utilized communication skills to interact with participants, sponsors, and stakeholders, fostering positive relationships. - Gained practical experience in event planning, logistics, and technical coordination, enhancing organizational and managerial abilities.

SKILLS

- Programming Languages: : Python, R Programming, SQL, JavaScript
- Web Development: : React, Node.js, Express, HTML, CSS, Flask
- Database Management: : MongoDB, SQL
- Data Analysis: : Pandas, NumPy
- Data Science: : Tensorflow, Keras, OpenCV, NLTK, Pytorch
- Machine Learning: : Regression, Classification, Clustering, Decision Trees, Random Forest, SVM
- Data Visualization: : Matplotlib, Seaborn, Tableau, Plotly, Power BI
- Other Tools: : Excel, Jupyter Notebook, Docker