

Vedant Sarade

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Education

Indian Institute of Technology (ISM), Dhanbad

July 2021 – May 2025

Bachelor of Technology in Environmental Engineering

Dhanbad, Jharkhand

- **Relevant coursework:-** Operations Research, Data Analytics, Probability and Statistics, Data Structures and Algorithms, Data Mining, Energy Auditing and Management, Applied Statistics

Experience

Jindal Power Limited | *Graduate Engineer Trainee (Environmental Engineering)*

July 2025 – Present

- Trained in **environmental data monitoring** and process operations, covering water quality, emissions, and effluent treatment across industrial units.
- Gained experience in **collecting, processing, and analyzing** large environmental datasets to assess compliance with regulatory standards and sustainability goals.
- Collaborated with cross-disciplinary teams to understand technical procedures, and performed some analysis, applying statistical tools to generate actionable insights for **improving monitoring accuracy and reporting**.

Projects

Customer Support Data Analysis – CaratLane | *Python, SQL, Data Visualization*

- Analyzed **20,000+ customer support interactions** across channels, identifying that **90% post-order calls were inbound**, with operational issues—refund, delivery, exchange—driving repeated support contacts.
- Quantified key metrics: **10% repeat contact rate**, **5-day refund resolution**, **60% first contact resolution**, and low digital channel adoption, highlighting improvement opportunities in process automation and channel migration.
- Developed actionable recommendations to reduce repeat contact rate to **3-5%**, accelerate refund SLAs to **<2 days**, increase chat/WhatsApp adoption to **50%**, and enforce **100% interaction tagging**.

Energy Consumption Dashboard Development | *Microsoft Power BI, SQL*

- Developed an **interactive Power BI dashboard** analyzing 1.5M+ records of water, electricity, and gas usage, uncovering consumption patterns and driving data-backed sustainability insights.
- Integrated 5+ datasets via SQL with **98% accuracy**, enabling a 15% improvement in resource utilization efficiency through actionable analytics.

Air Quality Index (AQI) Analysis | *Python, Pandas, Seaborn, Matplotlib*

- Analyzed 50,000+ AQI readings from Tamnar, Chhattisgarh, evaluating key pollutants and generating automated **statistical reports** to support compliance and public health initiatives.
- Built a dynamic Python-based dashboard (Pandas, Matplotlib, Seaborn), enabling **30% faster trend detection** and data-driven decision-making for urban planning and regulatory reporting.

Certification

- Completed **Machine Learning Specialization: Coursera** - by Stanford Online.
- Mastered **Business Analytics Excel** course on : **Coursera** - by Johns Hopkins University.
- Completed **Data Visualization with Power Bi** by: **Great Learning Academy**

Skills

- **Technical:** SQL, Python, Power BI, Tableau, Excel, Statistics, Machine Learning, Data Science, Data Visualization
- **Soft-skills:** Analytical and critical thinking, problem solving, communication skills, public speaking, teamwork

Social Engagements and Achievements

- Achieved **AIR-12233** in JEE (Advanced) 2021, and **98.32** percentile in the Maharashtra State Entrance Test.
- Secured a top spot in **Amazon ML Summer School** (among 3000 selected), highlighting strong machine learning skills.
- **Leadership roles** in IIT Dhanbad student clubs and fests: Promotion Head (Lights Camera ISM), Co-Head (Operations & Logistics, SRIJAN'24), Event-Head (Green n Sustain, Concetto), Organizer (Sponsorship, SRIJAN'23).
- Active in photography, badminton, table tennis, cricket, and fitness.