

# ARGHYA CHAKRABARTY

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## ACADEMIC CREDENTIALS

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| • B. Tech CSE – Cloud Computing   VIT Bhopal University  | 2022-2026   CGPA - 8.31 |
| • CBSE (12 <sup>th</sup> Grade)   Indira National School | 2022   82.8 %           |
| • CBSE (10 <sup>th</sup> Grade)   Indira National School | 2020   91.2 %           |

## TECHNICAL SKILLS

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| • <b>Languages</b> – Python, C++, Java, JavaScript | • <b>Data Science</b> – Numpy, Pandas, Matplotlib, Scikit-learn, Pycaret |
| • <b>Frontend</b> – React, NextJS, TailwindCSS     |  |
| • <b>Backend</b> – NodeJS, ExpressJS               | • <b>Dev Tools</b> – Linux, Git, GitHub, Docker, AWS, Postman            |
| • <b>Databases</b> – PostgreSQL, MySQL, MongoDB    |  |

## PROJECTS

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- **Predictive Maintenance for Industry Devices using IoT**
    - Developed a machine learning classification model using PyCaret that analyzed machine monitoring sensor data and predicted maintenance requirements with 80% accuracy.
    - Integrated real-time data acquisition from Arduino UNO sensors, processed the incoming data through the trained ML model to generate maintenance predictions, and programmatically updated the PostgreSQL database with the prediction results on the ReactJS web application
  - **Full stack E-Commerce Website**
    - Built the backend using Node.js and ExpressJS, incorporating JWT authentication for secure user access and building CRUD APIs to manage data within a MongoDB database.
    - Constructed the frontend with ReactJS, featuring distinct user views for product exploration, shopping cart functionality, and checkout processes, alongside a comprehensive administrator dashboard for product and order management.
  - **Disaster Recovery and Management System in AWS**
    - Simulated disaster recovery in AWS by deliberately terminating EC2 instances in the primary region and automatically triggering their re-provisioning in a designated backup region to ensure business continuity.
    - Automated daily creation of Amazon Machine Images (AMIs) using AWS Lambda functions, and synchronized these AMIs across primary and backup regions via Amazon S3 to maintain up-to-date recovery points.

## IT CERTIFICATIONS

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| • Oracle OCI Data Science Professional           | <a href="#">Verification</a>   July 2025 |
| • AWS Certified AI Practitioner                  | <a href="#">Verification</a>   May 2025  |
| • AWS Certified Cloud Practitioner               | <a href="#">Verification</a>   May 2025  |
| • Oracle AI Vector Search Certified Professional | <a href="#">Verification</a>   May 2025  |
| • Microsoft Azure - AI Fundamentals              | <a href="#">Verification</a>   Mar 2023  |

## ACHIEVEMENTS

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- Achieved a global rank of 1608 in TCS Codevita Season 12
  - Reached the penultimate stage of the Smart India Hackathon (SIH) as team OMADA
  - Got percentile of 92.1201280 in JEE Mains successfully qualifying for the JEE Advanced examination