GOVIND CHANDRA MOHANTY

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Education

National Institute of Technology, Rourkela   November 2022 – Present
BTech-MTech Dual Degree in Metallurgy and Materials Engineering   *CGPA: 7.14/10*

Technical Skills

- **Programming Languages**: Python, SQL, Java, Data Structures and Algorithms
- **Machine Learning**: Supervised Learning, Deep Learning, Natural Language Processing, Statistical Analysis, Predictive Modeling
- **Generative AI**: Large Language Models (LLMs), HuggingFaceAI API, OpenAI API, ChatGPT Integration
- **Data Science Libraries**: Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, NLTK, BeautifulSoup
- **Development Tools**: Selenium WebDriver, COMSOL Multiphysics, Git Version Control, Flask Web Framework
- **ML Algorithms**: Random Forest, AdaBoost, Gradient Boosting, Support Vector Machines, and Neural Networks

Relevant Coursework

- Data Structures and Algorithms, Object-Oriented Programming, File Handling, Machine Learning and Deeplearning

Experience

Research Intern   May 2024 – July 2024
Indian Institute of Technology Bhubaneswar | [Credentials](#)   *Strongly Recommended by Professor*

- Built corrosion prediction models using COMSOL Multiphysics with 92% accuracy across 200+ material samples for materials engineering research applications
- Automated Python data processing pipeline converting EBSD files to DXF format, reducing processing time from 8 hours to 1.2 hours per dataset representing 85% performance improvement
- Analyzed 500+ corrosion datasets using regression analysis, identifying 12 material properties that affect corrosion performance by 40% through statistical modeling techniques
- Received strong recommendation from supervising professor for exceptional research contributions and technical expertise in computational materials science

Projects

Automated Web Data Collection Tool   August 2024
Python, Selenium, Pandas, Excel   [GitHub Link](#)

- Built web scraping tool using Selenium WebDriver to extract business contacts from Hunter.io and LinkedIn, collecting 5,000+ verified contacts with 95% success rate across 1,000+ searches
- Programmed error handling and dynamic element detection algorithms, creating robust ETL data pipeline with deduplication and Excel integration reducing manual data entry time from 20 hours to 4 hours weekly
- Implemented scalable automation system achieving 80% efficiency improvement for enterprise-level data collection and processing with comprehensive validation protocols

Traffic Accident Severity Analytics   April 2024
Python, AdaBoost, MLOps, Statistical Modeling   [GitHub Link](#)

- Trained AdaBoost model for accident severity classification using 40,000+ traffic records, achieving 85% accuracy and 0.82 F1-score with comprehensive statistical analysis and feature engineering
- Performed data analysis and feature engineering on traffic datasets, identifying 15 risk factors through statistical testing and deployed machine learning model with SHAP analysis for transportation authorities
- Implemented MLOps pipeline with automated model training, version control, and deployment optimizing emergency response allocation by 25% for public safety applications

Achievements & Leadership

- **Competition Excellence**: 3rd Place among 50+ teams at E-Baja SAE Hyderabad 2024 Design Validation National Competition with outstanding technical performance
- **Innovation Recognition**: Top 20 Finalist at Startup Conclave 2025 Shaheed Bhagat Singh College selected among 500+ participants for innovative startup presentation
- **Team Leadership**: Secretary, Heartbeats Music Band NIT Rourkela (March 2024 – Present) - Led 10-member team to victory at IIT Bhubaneswar Battle of the Bands 2024