CHIRANJEET DWIVEDY

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LinkedIn — GitHub — LeetCode — GeeksforGeeks

SUMMARY

Machine Learning Engineer and Data Science enthusiast with strong expertise in optimization algorithms, predictive modeling, and full-stack development. Proven track record in research publications, building ML systems, and delivering scalable applications.

EDUCATION

Kalinga Institute of Industrial Technology (KIIT University) **Expected Jul 2027**
Bachelor of Technology in Computer Science and Engineering CGPA: 9.53/10.0

- **Relevant Coursework:** Machine Learning, Data Structures & Algorithms, Database Management Systems, Operating Systems, Object-Oriented Programming, Probability & Statistics, Artificial Intelligence, Data Mining

TECHNICAL SKILLS

Programming:	Python, SQL, JavaScript, TypeScript, Java, C++
Machine Learning:	Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn
Data Science:	Data Preprocessing, Feature Engineering, Statistical Analysis, EDA
ML Algorithms:	Regression, Classification, Clustering, NLP, Neural Networks, Ensemble Methods
Frontend:	React, Next.js, Redux, Tailwind CSS, HTML5, CSS3
Backend:	Node.js, Express.js, REST APIs, Flask, Streamlit, JWT
Databases:	MongoDB, MySQL, PostgreSQL, Firebase
Tools:	Git, Docker, VS Code, Postman, Jupyter Notebook, Linux

PROFESSIONAL EXPERIENCE

Research Assistant - Machine Learning — KIIT University **Sep 2024 – Present**

- Researching Economic Load Dispatch problems using DREAM optimization algorithm for power systems
- Implementing metaheuristic approaches for non-convex, non-linear optimization challenges
- Paper accepted at IEEE International Conference 2025 on optimization algorithms
- Analyzing thermal generator constraints and comparing performance with PSO, GA methods

Web Developer — GFG-KIIT Chapter **Jul 2024 – Present**

- Delivered 5+ scalable MERN stack applications improving user engagement by 30%
- Integrated secure JWT authentication system and RESTful APIs
- Enhanced page load performance by 30% through optimization techniques
- Mentored 10+ junior developers in coding standards and version control

Machine Learning Intern — KIIT University **Apr 2024 – Jul 2024**

- Produced 10+ ML models for regression, clustering, classification with 80%+ accuracy
- Built interactive Streamlit dashboards for data visualization and analysis
- Implemented full-stack features using React and Node.js, boosting functionality by 25%
- Conducted ML training workshops for team members on data preprocessing

MACHINE LEARNING PROJECTS

Cricket Match Prediction System (GitHub) **Python, Streamlit, Scikit-learn**

- Engineered ensemble ML model achieving 85% accuracy in match outcome prediction
- Processed historical data with Pandas and performed feature engineering
- Developed interactive Streamlit dashboard for real-time predictions

Movie Recommendation System (GitHub) **Python, Pandas, Scikit-learn, NLP**

- Built content-based filtering using cosine similarity and TF-IDF vectorization
- Processed 30,000+ movie dataset for personalized recommendations
- Implemented collaborative filtering with matrix factorization techniques

SMS/Email Spam Detection (GitHub) **Python, Scikit-learn, NLP, Streamlit**

- Developed NLP pipeline with classification algorithms (Naive Bayes, SVM, Random Forest)
- Achieved 96% accuracy in spam detection with precision-recall optimization
- Engineered TF-IDF and Count Vectorizer features for text representation

ACHIEVEMENTS

- **Paper Accepted** at IEEE International Conference 2025 on optimization algorithms
- **Finalist** in EvoLUMIN Hackathon 2024 (Top 8% among 85+ teams)
- **Top 30%** in Sheriyans UI Hackathon (600+ teams)
- Solved **470+** DSA problems on LeetCode/GFG/CodeChef
- Ranked **1756** in LeetCode Weekly Contest 448