DIKSHA SINGH

• +917488690513 •dikshasingh0145@gmail.com • LINKEDIN • GITHUB

EDUCATION

B. TECH in Information Technology | Kalinga Institute of Industrial Technology **May'21 - May'25** **KIIT University | Bhubaneshwar, IN**

- CGPA: 8.40/10, Studying advanced topics including Data Structures for algorithm optimization, Machine Learning for predictive modeling, and AI frameworks for real-world applications. Gaining hands-on experience in NLP, deep learning, and generative AI, with a focus on model optimization and data-driven decision-making.

INTERNSHIPS

South Bihar Power Distribution Company Ltd. (SBPDCL) **June'24 - July'24**

- Constructed a comprehensive energy monitoring solution, facilitating enhanced stakeholder engagement with the data; this streamlined reporting process improved overall responsiveness by 40% in addressing energy usage concerns.
- Pioneered data processing workflows and statistical analysis, improving data accuracy by 15% and ensuring consistent reporting.
- Engineered interactive visual dashboards using Power BI and Matplotlib, achieving a 30% reduction in trend analysis time while elevating forecasting capabilities by 25%, enabling more informed decision-making for stakeholders.
- Implemented a system for energy consumption monitoring, enhancing data reliability with 20% increase in resource allocation efficiency and system scalability.

PROJECTS

Recipe Generator **Sep'24 - Nov'24**

- Developed a Flask app recommending recipes with 92% accuracy based on user-provided ingredients.
- Executed TF-IDF and cosine similarity algorithms within a recipe recommendation system, enhancing user experience with a notable 30% increase in ingredient relevancy through advanced data processing techniques.
- Analyzed an interactive web interface and a user-friendly interface, reducing query time by 40% with efficient backend.
- Leveraged Python for data preprocessing, Flask for web development, scikit-learn for similarity analysis, and HTML/CSS to create an interactive frontend design.

Movie Recommendation System **July'24 – July'24**

- Devised and launched a robust movie recommendation system in Google Colab using Python, enhancing data processing.
- Optimized data processing pipelines, increasing processing speed by 35%, and enhanced system responsiveness for real-time analytics.
- Created interactive visualizations to streamline analytical reporting, reducing manual effort by 30% and improving reporting accuracy.

Energy Consumption Analysis **June'24 - July'24**

- Designed an energy consumption analysis platform that integrated data processing with predictive analytics, boosting forecasting accuracy by 30%.
- Integrated advanced predictive analytics, and improved resource allocation, reducing energy waste by 15%.
- Leveraged machine learning models to identify consumption patterns, contributing to a 20% increase in operational efficiency and enhanced decision-making processes.

NBA Sponsorship Analysis System **Feb'24 - April'24**

- Engineered an analysis platform in Jupyter Notebook using Python to predict financial trends with 85% precision.
- Designed interactive Power BI dashboards with real-time data feeds and custom visualizations, shortened analysis processes by 20%.
- Deployed Python and Pandas for efficient data cleaning, Power BI for interactive dashboards, and Machine Learning models for forecasting trends based on 1,000+ data points.

KEY SKILLS

Technical Skills

Languages: Python, C, C++, Java, R

Data Analysis: SQL, PowerBi, Excel, EDA

Web Development: HTML, CSS

Additional Skills: Prompt Engineering for ChatGPT

Certifications: Cloud Computing AWS (Internshala), Work for Front-end Development, HackerRank , Generative AI: Essentials (Coursera), Generative AI: Prompt Engineering (Coursera), Graph Theory Programming Camp

Extra-Curricular: Honed skills in Karate, showcasing discipline and self-defense skills, pursued training in Kathak, reflecting cultural appreciation and dedication to classical dance.