Rohit Ray

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Profile

Aspiring Machine Learning and Deep Learning Engineer with a strong foundation in AI solutions for domains like finance, transportation, and image recognition. Proficient in using advanced frameworks to build scalable models and eager to contribute to impactful projects in IT and Data Science.

Education

Bachelor of Technology in Computer Science and Engineering (Hons.) *2024*
XIM University, Bhubaneswar *Bhubaneswar, India*
CGPA: 7.99

Higher Secondary *2020*
Royal Higher Secondary School of Science and Technology, Bhubaneswar *Bhubaneswar, India*
Percentage: 65%

Skills

- **Programming Languages**: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL
- **Database**: MySQL, PostgreSQL
- **Machine Learning**: Regression, Classification, Clustering, Feature Selection, Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, OpenCV
- **Natural Language Processing**: NLTK, spaCy, Transformers (BERT, GPT)
- **Deep Learning:** Data Preprocessing, Artificial Neural Networks (ANNs), Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Long Short-Term Memory Networks (LSTMs), Transformers, Transfer Learning, Reinforcement Learning, Generative Adversarial Networks (GANs)
- **IDEs Worked On**: VS Code, Anaconda, Spyder, Jupyter Notebook, MySQL Workbench, PyCharm, Google Colab, Kaggle
- **Soft Skills**: Problem-Solving, Communication, Team Collaboration

Projects

Customer Retention Analyzer | Link

- **Tools Used**: Python, XGBoost, Streamlit
- **Summary**: Designed and launched a predictive analytics tool using advanced algorithms to forecast customer churn, facilitating targeted strategies based on data-driven analysis of retention patterns observed over six months.
- **Contributions**: Conducted extensive data preprocessing and feature engineering on customer datasets, implemented multiple models, and achieved 84% accuracy with XGBoost. Created a user-friendly Streamlit app for real-time churn predictions.

License Plate Detection and Logging System | Link

- **Tools Used**: YOLOv10, PaddleOCR, Python, OpenCV, MySQL, JSON
- **Summary**: Developed a real-time license plate detection system using YOLOv10 for high-accuracy object detection.
- **Contributions**: Executed YOLOv10 for precise object detection, seamlessly integrating PaddleOCR to enhance text recognition capabilities; optimized the system architecture resulting in increased processing speed and overall performance improvements.

AI-Powered Document Insight Assistant | Link

- **Tools Used**: LangChain, OpenAI GPT- 4, Streamlit, APIs
- **Summary**: Spearheaded the creation of an AI-driven tool that transformed document analysis workflows, decreasing the average processing time by 30 minutes per report; enabled the analytics team to focus on strategic initiatives.
- **Contributions**: Integrated Retrieval-Augmented Generation (RAG) technology to enhance document retrieval capabilities and context-aware Q&A, increasing user satisfaction by providing relevant answers within an average response time of 2 seconds.

Certificates

- **Python (Basic) Certificate** | Link
- **AWS Cloud Practitioner** | Link
- **SQL (Basic) Certificate** | Link
- **AWS Technical Essentials** | Link
- **Problem Solving (Basic) Certificate** | Link

Extra-Curricular Activities

Executive Member at CodeChef XIMUB Collage Chapter — 10/2022 – 12/2023

- Led a team of 10+ members to organize monthly coding events, attracting over 100 participants per event.
- Designed and reviewed over 50 coding questions for the 'Coder Of The Month' challenge, ensuring high-quality content while coordinating logistics that attracted more than 100 participants to each monthly event.

Tech Team Member in Tech Fest (SYNCHRONIZE 2023) — 11/2022 – 01/2023

- Organized XIM University's first tech fest, managing coding competitions and technical workshops.
- Created engaging challenges and led a team of volunteers to attract 200+ participants.