

Manas Kumar Giri

AI/ML DEVELOPER

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PROFILE SUMMARY

Results-driven **AI/ML Developer** with expertise in **machine learning, deep learning, and NLP**. Skilled in **predictive analytics, recommendation systems, fraud detection, and AI automation**. Proficient in **TensorFlow, PyTorch, Scikit-learn, Hugging Face, AWS and Azure** with hands-on experience in **MLOps, model deployment, and data pipelines**. A **Gold Medalist in MCA**, known for solving real-world challenges through **scalable AI solutions** and **cutting-edge research**. Strong **problem-solving and analytical skills**, dedicated to driving AI innovation.

EDUCATION

North Orissa University, Baripada | 2021-23

Master Of Computer Application

CGPA: 8.93/10

SKILLS

Programming Languages: Python (Advanced), SQL

Frameworks: Django, Flask, FastAPI, REST API

Machine Learning: Scikit-learn, TensorFlow, PyTorch, XGBoost, LightGBM, Statistical Analysis, A/B Testing

Deep Learning: Transformers, BERT, GPT, GANs, LSTMs, CNNs, Attention Mechanisms, Autoencoders

NLP & Generative AI: Hugging Face, LangChain, OpenAI GPT, NLTK, SpaCy, RAG, Agentic AI

Data Tools: Pandas, NumPy, ETL Processes, Feature Engineering, Spark

MLOps: AWS(SageMaker, Lambda, S3, EC2), Azure(ML Studio, Data Factory, Databricks), Docker, MLflow, Git, GitHub Actions

Visualization: Tableau, Power BI, Matplotlib, Seaborn, Plotly, Alteryx

Soft Skills: Analytical Thinking, Problem-Solving, Team Collaboration, Communication

EXPERIENCE

AI/ML ENGINEER INTERN

Regis Soft Pvt Ltd | August 2024 – January 2025

- **Exploratory Data Analysis (EDA):** Conducted in-depth EDA on large-scale datasets, leading to a **30% improvement** in model performance through advanced feature engineering and data preprocessing.
- **Recommendation Engine:** Designed and deployed an AI-driven recommendation system for e-commerce platforms, boosting **user retention by 20%** through personalized product suggestions.
- **Sentiment Analysis:** Developed a high-accuracy NLP model, achieving **92% precision** in analyzing customer sentiment, enhancing customer experience insights..
- **Fraud Detection & Anomaly Identification:** Built **unsupervised and supervised ML models** that detected **98% of fraudulent transactions** in financial datasets, reducing risks and improving security measures.
- **Real-Time Interactive Dashboards:** Created **highly interactive dashboards** using **Power BI, Tableau, and Matplotlib**, automating real-time data visualization for **faster stakeholder insights** and strategic planning.
- **End-to-End Model Deployment:** Successfully deployed machine learning models using **Flask, Docker, and cloud platforms (AWS & Azure)**, ensuring scalable and efficient AI solutions for business applications.

Key Technologies: LSTM, BERT, Transformers, NLP, AWS, Azure, SQL, Cassandra, Flask, Docker, Power BI, Tableau, Feature Engineering, Data Preprocessing

DATA SCIENTIST INTERN

Ineuron.ai | January 2024 – June 2024

- **Predictive Analytics & AI Solutions:** Researched and developed **ML/DL models for demand and supply forecasting**, leveraging **explainable AI** for business-critical decisions.
- **NLP for Healthcare:** Fine-tuned **LSTM & BERT** models to extract and categorize medicine names from prescriptions with **high precision**, automating medical data processing.
- **ETL & Data Pipeline Optimization:** Engineered an **efficient ETL pipeline**, enabling seamless **data extraction, transformation, and visualization** of delivery and purchase trends.
- **A/B Testing & Experimentation:** Conducted rigorous **A/B testing** to evaluate model performance and optimize ML-based business solutions.
- **Business Intelligence & Insights:** Translated raw data into **actionable business insights**, driving informed decision-making and optimizing operational efficiency.

Key Technologies: Statistical Analysis, Data Modeling, SQL, ETL, Tableau, Time-Series Forecasting, A/B Testing, Deep Learning, Transformers, Cloud Computing (AWS/Azure)

SELECTED PROJECTS

Silent Scribe – Interview Preparation & Proxy AI [GitHub Link](#)

- AI tool for real-time interview responses, boosting user confidence.
- **Tech:** Python, Streamlit, Groq API, SpeechRecognition, PyAudio, gTTS.
- **Outcome:** Enhanced interview performance with discreet, professional support.

Financial Document Analyzer [GitHub Link](#)

- AI application for extracting insights from financial documents, aiding decision-making.
- **Tech:** Python, Streamlit, Groq API, PyPDF2.
- **Outcome:** Automated analysis, saving time and improving efficiency.

Real Time Stock Prediction Web App [GitHub Link](#)

- ML project predicting stock trends with LSTM neural networks.
- **Tech:** Python, LSTM, Pandas, Numpy, Keras, TensorFlow, Streamlit.
- **Outcome:** User-friendly app analyzing historical data with real-time stock updates and trading information.

AI Hospital Patient Billing System [GitHub Link](#)

- Voice-enabled AI chatbot providing real-time responses via text and voice.
- **Tech:** Streamlit, Python, SpeechRecognition, gTTS, Groq.
- **Outcome:** Enhanced user interaction with seamless voice and text responses.

Reddit Comment Sentiment Analysis App [GitHub Link](#)

- Web app for scraping Reddit comments and performing sentiment analysis.
- **Tech:** Python, Streamlit, PRAW, Matplotlib, BeautifulSoup4, Pandas, NLTK.
- **Outcome:** Analyzed sentiment distribution with visual insights and categorized comments as Positive, Neutral, or Negative.

CERTIFICATIONS & ACHIEVEMENTS

- Full Stack Data Science - **iNeuron**
- Alteryx Machine Learning Fundamentals Certified - **Alteryx**
- AI/ML Development - **GUVI**
- Generative AI - **IBM**
- **Pro5** - Ranked in the **top 5%** in Pro5's Machine Learning assessment, showcasing expertise in ML algorithms.
- **Publications** - Published a blog on "Generative AI, ML & DL" on **Medium**.
- **Gold Medalist (MCA)** - North Orissa University (2023)
- **Kaggle MNIST Competition** - Achieved **99.81%** accuracy (Top **10%** globally).

RESEARCH INTERESTS

- Natural Language Understanding and Generation
- Deep Learning Architectures (Transformers, GANs)
- Algorithmic Foundations of Optimization
- AI for Social Impact