Manas Kumar Giri

Data Scientist & AI/ML Engineer

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PROFILE SUMMARY

Passionate and skilled AI Developer with a strong foundation in Python programming, machine learning algorithms, and statistical analysis. Recently graduated with expertise in developing innovative solutions in data science and artificial intelligence. Proficient in leveraging cutting-edge technologies like TensorFlow, PyTorch, and Hugging Face for machine learning and deep learning applications. Dedicated to continuous learning and staying up-to-date with industry trends.

EDUCATION

North Orissa University, Baripada, 2021-23
Master Of Computer Application
CGPA: 8.93/10

Fakir Mohan University, Balasore, 2018-21
B.Sc (Chemistry)
Percentage: 82.68%

TECHNICAL SKILLS

Programming Languages: Python
Frameworks and Libraries: Flask, TensorFlow, PyTorch, Keras, Pandas, Numpy, Scikit-Learn, Seaborn, Matplotlib
Web Development: Streamlit, Anvil, Flask, Heroku, Html, CSS
Machine Learning: Machine Learning, Deep Learning, Statistics, AI, Computer Vision, NLP, LLM, Hugging Face, LangChain, RAG, Model Fine-tuning
Cloud Platforms: AWS, Azure, GCP
Databases: Cassandra, SQL, MySQL
Data Visualization: Power BI, Tableau, MS Excel
DevOps: CI/CD, Docker, Linux, Git, Github
Soft Skills: Analytical thinking, problem-solving, teamwork, effective communication

PROJECTS

Real Time Stock Prediction Web App GitHub Link

- **Overview**: Develop a ML project to predict stock market trends using Long Short Term Memory(LSTM) neural network.
- **Technologies** : Machine Learning(LSTM), python, pandas, Numpy, Keras, Tensorflow, Streamlit, Streamlit Share, html, css
- **Outcome**: Implemented user-friendly web app analyzing historical stock data, offering realtime updates on stock trends, trading platform details, contact, and feedback pages. Showcased proficiency in ML, neural networks, web dev, and data visualization.

AI Chanakya ChatBot GitHub Link

- **Overview**: "AI Chanakya," an AI-powered voice-enabled chatbot using Streamlit and Python. Integrated with Groq's language model, it provides real-time responses via voice and text inputs.
- **Technology: S**treamlit, Python (speech recognition, gtts, Groq).
- **Outcome**: Created a versatile chatbot for seamless user interaction. Delivers relevant responses via voice and text, enhancing accessibility and engagement.

AI Image To Memes Generator Web App GitHub Link

- **Overview:** Developed an AI-powered web application that generates humorous meme captions based on uploaded images. The app analyzes image content using advanced AI models and provides various customization options for text styling and the addition of stickers.
- **Technologies**: Python, Hugging Face LLM model API, streamlit, PIL(pillow)
- **Outcome**: Successfully created a user-friendly application that allows users to generate and customize memes effortlessly. The project demonstrated proficiency in integrating AI models with web technologies and enhanced my skills in image processing, API usage, and web development.

IBM HR Analytics Project: Employee Attrition [GitHub Link]

- **Overview:** Analyzed factors influencing employee departures using the IBM HR Analytics Attrition Dataset to develop retention strategies.
- **Technology:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, XGBoost
- **Outcome:** Identified job satisfaction, work-life balance, and performance rating as key factors. Predictive model achieved 85.26% accuracy with XGBoost. Provided actionable strategies to improve work environment and reduce turnover.

Reddit Comment Sentiment Analysis App [GitHub Link]

- **Overview:** A web app that scrapes comments from Reddit posts, performs sentiment analysis, and visualizes the data through bar graphs and pie charts to provide insights into comment sentiment distribution.
- **Technology:** Python, Streamlit, PRAW (Python Reddit API Wrapper), Matplotlib, Beautifulsoup4, Pandas, NLTK .
- **Outcome:** Identified sentiment distribution in Reddit comments. Analyzed sentiment effectively using pre-trained models. Provided clear visual insights through bar graphs and pie charts and in it also option to see Positive, Neutral , Negative comments.

EXPERIENCE

MACHINE LEARNING INTERN

iNeuron | *Remote*

Metro Interstate Traffic Volume Prediction **(Jan 2024 – Present)**

- **Data Prepar** : This consists of storing our data into cassandra database and utilizing it, Data Cleaning, Feature Engineering, Feature Selection, EDA, etc.
- **Model Develo** : In this step, we use the resultant data after the implementation of the previous step to cross validate our Machine Learning model and perform Hyperparameter optimization based on various performance metrics in order to make our model predict as accurate results as possible.
- **Model Deplo** : This step include creation of a front-end using Anvil, Flask and Heroku to put our trained model into production.

CERTIFICATIONS

- Full Stack Data Science – iNeuron
- Generative AI - IBM
- Python Programming – North Orissa University
- AI For India 2.0 - Skill India Digital(GUVI)

PERSONAL DETAILS

- **Date of Birth** : 24th May 1998
- **Languages** : English, Hindi & Oriya Marital
- **Status** : Single
- **Interests** : Writing stories in native language, traveling, exploring new places, playing cricket

DECLARATION

Declaration I do hereby declare that all the statements furnished are to the best of my knowledge and belief.

Place: Bangalore **Manas Kumar Giri**