BIKASH CHANDRA SAHOO

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Profile

A Data Science postgraduate with a strong foundation in data analysis, machine learning and data visualization. Demonstrated the ability to extract actionable insights from complex datasets and delivered findings in a clear and concise manner. Keen about leveraging data to drive business decisions and operational efficiency. Aspiring to continually learn, grow and make meaningful contributions in the field of Data Science.

Education

Master of Technology
Computer Science with Specialization in Big Data Analytics
Vellore Institute of Technology, Chennai, Tamil Nadu
CGPA: 9.42

Bachelor of Engineering
Electronics and Telecommunication
Army Institute of Technology, Pune, Maharashtra
CGPA: 8.96

Skills

- **Programming Languages** Python, C/C++
- **Data Manipulation** Pandas, NumPy
- **Visualization Tools** Matplotlib, Seaborn, Power BI, Tableau, MS Excel
- **Machine Learning** Scikit-learn, Keras, TensorFlow
- **Big Data Technologies** Hadoop, Spark
- **Database Management** SQL
- **Statistical Analysis** Regression Analysis, Hypothesis Testing
- **Version Control** GitHub
- **Design Tools** Canva, Figma
- **AI and Conversational Model** ChatGPT
- **Other** Data analysis, NLP, GenAI
- **Development Environment** Google Colab, Anaconda, Visual Studio Code

Internship

California Institute of Genetics (Oct 2024- Jan 2025)
Intern

- Contributed to research and collaborated with a multidisciplinary team to design and implement machine learning model aimed at identifying biomarkers of Parkinson's disease to develop an AI-driven approach for early Parkinson's disease diagnosis.
- Achieved 92.4% accuracy for the hybrid machine learning model in pre-Research and Development (R&D) phase.

CSIR-National Geophysical Research Institute (NGRI) (Jun 2018- Aug 2018)

Intern

- Analyzed and image-processed seismic data using balanced contrast enhancement technique (BCET) in MATLAB.
- Achieved a low MSE of 0.0014 and a CNR of 2.1, enhancing image detail preservation and contrast.

Projects

Smart Outreach Tool: An AI-Powered Cold Email Generator. (Oct 2024- Nov 2024)

- Created an AI-driven platform with A/B testing to automate and personalize cold emails, enhancing outreach relevance and engagement for professional communication.
- Setup: Python, ChatGroq, ChromaDB, Streamlit, Llama, Pandas, NumPy, Scikit-learn.

Harnessing Quantum Computing for Stock Market Prediction. (Jul 2023- Dec 2023)

- Reduced prediction error by 1.9% through the implementation of quantum linear regression on time-series stock market data, leading to more accurate stock market forecasts.
- Library used: Pandas, Keras, Matplotlib, Qiskit.

A Deep Learning Framework for Prediction of Cardiopulmonary Arrest. (Sept 2022- June 2023)

- Increased model prediction accuracy to 94.1% using advanced deep learning techniques on Cleveland and Framingham datasets, improving early detection of cardiopulmonary arrest.
- Library used: Pandas, NumPy, Scikit-Learn, Keras, Matplotlib, TensorFlow.

Publications

- "A deep learning framework for prediction of cardiopulmonary arrest", EAI transaction on Pervasive Health and Technology, Volume 10, March 2024. DOI: 10.4108/eetpht.10.5420.
- "American sign language translator and calling device", IIJEC, Volume 7, Issue 5, May 2019.

Certifications

- Data Science Bootcamp from Udemy.
- Python in Data Science from Cognitive Class, IBM.
- Data Analytics Essentials from CISCO Networking Academy.

Achievements

- AICTE-PG scholarship for academic year 2022- 2024. Offered to GATE qualified and student opting for higher studies after Under graduation from AICTE approved institutes.
- Second rank in academics in first year of M. Tech 2022-2023 in VIT, Chennai.
- Central Sector Scholarship from MHRD Government of India (2015-2019). Offered to students undergoing Under graduation and had performed well in senior-secondary.