Sanjeeb Tiwary

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Tech pursuing graduate skilled in Machine Learning, Data Science, and AI. Proficient in complex model development, Big Data analysis, and forecasting.

EXPERIENCE

- Intern, **Technowell Enterprise Services Private Limited,** Scientific Researcher, Bhubaneswar, Odisha. **01/2024**

  Working with number of spectrum technology with the help of satellite technology using Geographic Information System and geospatial analytics with the help of complex machine learning technology and data acquisition and analysis tools.

- Contribution, **Microsoft Student Community**, Machine Learning Developer, Bhubaneswar, Odisha. **11/2022– 08/2023**

  Acquired expertise in real-time Big Data analysis and forecasting for business models, while also broadening proficiency in server optimization, data handling, and complex machine learning models.

- Apprenticeship, **MedTourEasy**, Data Science Training, Remote. **07/2023– 08/2023**

  Attained expertise in real-time Big Data analysis and business model forecasting, while expanding proficiency in server optimization, data handling, and complex machine learning models.

- Intern, **Zummit Infolabs**, Junior Data Scientist, Remote. **02/2023 – 06/2023**

  Acquired expertise in CNN, GAN, RNN, and emotion detection, while enhancing product knowledge in complex models, datasets, real-time data optimization, and mathematical algorithms.

- Contribution, **TensorFlow User Group (TFUG)** Open-source Developer. **05/2022– 05/2023**

  Attained expertise in machine learning and Python programming, with expanded product knowledge in the development and optimization of TensorFlow library functions.

PROJECT / RESEARCH

- **Research: Analyze Website Visitors with Google Analytics Segments.** **05/2023**

  Environment: Power BI, Microsoft Excel, Python, Google Analytics Segments.

  Utilizing Google Analytics segments, this project seeks detailed insights into website visitor behaviour for data-driven decisions, enhanced user experience, and optimized website effectiveness.

- **Project: E-commerce Product Recommendation.** **04/2023**

  Environment: Microsoft Excel, SQL, Python, Flash, SciPy.

  Creating an e-commerce recommendation system involves batch processing for user profiles and real-time updating through machine learning, enhancing user engagement and driving potential sales.

- **Research: Human Activity Recognitions.** **04/2023**

  Environment: Signal Processing, scikit-learn, TensorFlow, PyTorch, and Cross-Validation Techniques

  Excited to unveil my Human-Activity-Recognition project! Using computer vision and deep learning, it accurately identifies real-time activities through webcam frames and a pre-trained neural network on the Kinetics dataset.

- **Project: Stock Forecasting and Visualizing of Different Companies.** **01/2023**

  Environment: Microsoft Excel, SQL, Jupyter Notebook, Power BI.

  Creating a web app using machine learning, this project lets users visualize and predict real-time stock data. With financial APIs, the app offers an intuitive interface for stock details, historical data, and predictions, regularly updating models for accuracy based on user feedback.

- **Research: Queue Waiting Time Prediction.** **06/2022**

  Environment: Data Analysis, Queueing Theory, TensorFlow, PyTorch and Time Series Analysis

  This study uses Autoregressive (AR) time-series models to predict waiting times in real-life banking queues, outperforming LSTM and Temporal Fusion Transformer for effective forecasting in developing countries.

- **Project: Speech Recognition—The AI Voice Assistant.** **02/2022**

  Environment: Data pre-processing, NLP, Microsoft Excel, PostgreSQL, Deep Learning.

  Inspired by Iron Man's Jarvis, this AI-driven voice assistant, developed using LLM models, handles tasks from music to smart home controls. Originally a personal project, its potential extends to automation, customer service, and business assistance.

EDUCATION

Bachelor of Technology (Computer Science), **KIIT DU**, Bhubaneswar **2021-2024**
Diploma in Electronics and Telecommunication Engineering, **KIIT Polytechnic**, Bhubaneswar **2018-2021**

CERTIFICATIONS

- **Generative AI** from Google Cloud **2023**
- **Fifteenth International Conference on Contemporary Computing (IC3-2023)** from University of Florida **2023**
- **Analyses Website Visitors with Google Analytics Segments** from Coursera **2023**
- **Data Tales 2023** from Great Lakes Institute of Management **2023**
- **Hero Campus Challenge Season 8** from Unstop **2023**
- **Accenture Data Analytics and Visualization Virtual Experience** from Forage **2023**
- **JP Morgan Chase and Co Software Engineering Virtual Experience** from Forage **2022**
- **Problem-Solving (Intermediate) Certificate** from HackerRank **2022**
- **International Model United Nations Conference** from IMUNA_UNDP **2020**

SEMINARS AND WORKSHOPS

- Undergone Special Training Sessions for One Day on "**Data Analytics Workshop**" at IRA EDU-TECH
- Undergone Special Training Sessions for Three Months as **AWS Cloud Administrator**, CAAS KIIT
- Undergone Special Training Sessions for One Day on **Analysing and Visualizing Data with Microsoft Power BI**, Jobaaj.com

AWARDS AND RECOGNITIONS

- Certified as **Google Analytics Certified** by Google Cloud **2023**

PUBLICATIONS

- Abnormal High-Density Crowds published in **IEEE dataport**

  DOI: 10.21227/m4vb-p620

  The dataset includes meticulously curated video footage from real-life incidents, pre-processed for anomaly detection research. It features incidents like the Times Square Chaos and Las Vegas Mass Shooting, with frames capturing anomalous behaviour, subdivided for training and testing.

- Queue Waiting Time published in **IEEE dataport**

  DOI: 10.21227/c61t-qw14

  This detailed collection records queue dynamics, including arrival, start and finish times, waiting duration, and queue length. Valuable for optimizing queuing systems, it offers insights into efficiency, service times, and customer experiences in diverse fields.

- Prediction of Algae Growth: A Machine Learning Perspective published in **Association for Computing Machinery (ACM)**

  DOI: 10.1145/3607947.3607967

  Utilizing a deep residual convolutional neural network, the study assesses the automatic categorization of algae, addressing their global significance and environmental implications. Employing techniques like Artificial Neural Networks, Gradient Boosting Decision Trees, and Support Vector Machines, the research accurately forecasts Harmful Algal Blooms based on environmental variables, highlighting the precision in predicting algae growth and characteristics.

ADROITNESS

- **Programming Language:** C++, Python, SQL, NoSQL, AWS SUSE Linux, HTML, CSS, UIPath Studio
- **Platforms:** Microsoft Excel, RDBMS, Power BI, AWS, Tableau, GitHub, MongoDB, PostgreSQL, RPA, Docker
- **Professional:** Problem-Solving, Critical Thinking, Communication, Teamwork, Creativity, Responsibility, Storytelling