DILIP KUMAR PANDA

Mail - dilipkupanda23@gmail.com Github-https://github.com/dilipp07

Linkedin- https://www.linkedin.com/in/dilip-panda-230721269

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	M.SC(2YR)	IIT Kharagpur	7.71 / 10
2022	Bachelor in Physics (Hons)	Ravenshaw University ,Cuttack	9.18 / 10
2019	Depaul School	ISC	93.4%
2017	MAV School	ICSE	86.5%

SKILLS AND EXPERTISE

Programming: Proficient in Python and SQL | **Libraries/Frameworks**: TensorFlow, Scikit-Learn, PyTorch , nltk , OpenCV | **Visualization:** Matplotlib, Seaborn , plotly for clear data presentation.Tableau for creating interactive dashboards. | **Version Control:** Git for collaborative coding | **Databases**: Experience with MySQL and Mongodb.| **Web Frameworks:** Flask for building interactive web applications.| **Cloud Platforms:** AWS (Beanstalk, CodePipeline), Azure.| **Containerization**: Docker for efficient application deployment.

INTERNSHIPS

Insurance premium prediction | iNeuron Intelligence Pvt Ltd **May'23 - June'23**

- *Advanced Predictive Modelling:* Developed and refined health insurance premium prediction model by applying cutting-edge machine learning techniques, enhancing pricing strategy working on a vast dataset of past health records.
- *Data-driven Insights:* Conducted comprehensive data preprocessing and feature engineering, uncovering key risk factors for accurate premium assessments which will help both company and customer to correct decission.
- *AI application:* Built an AI web application using end to end machine learning pipeline and deployed in azure and AWS cloud.

Time Series Forecasting | Corizo **July'23 - Aug'23**

- Executed a comprehensive internship at Corizo, focusing on time series forecasting within the realm of stock market data, utilizing ARIMA and SARIMAX algorithms to enhance predictive modeling.
- Leveraged expertise in ARIMA and SARIMAX algorithms during an internship at Corizo to analyze stock market data, contributing to the development of accurate time series forecasting models.

PROJECTS

Flipkart Review Scraper | Self Project

- **Web Scraping and Data Extraction :** Develop a Flask-based Python project that employs web scraping to extract customer reviews from Flipkart .Use libraries like BeautifulSoup and requests to parse and collect review data, enhancing my web scraping skills.
- **Interactive Review Web App :** Build an interactive web application using Flask where users can search for products. Upon search, utilize Google search API to find relevant Flipkart product pages and display scraped customer reviews.

Zomato Dataset Time Prediction | Self Project

- Developed a machine learning model to predict delivery times for Zomato food orders using a large dataset, enhancing delivery efficiency.
- I have tried with algorithm like Random Forest, Decision Tree, Gradient Boosting, Linear Regression, XGBRegressor, CatBoosting Regressor,AdaBoost Regressor with different parameter using hyperparameter tuning and gridsearchcv to get the best model .
- After building the model I have created a web application using flask and deployed in AWS ans Azure Cloud. I have also tried the containerization using docker

Affair prediction | Self Project

- Developed a machine learning model to predict relationship affairs based on demographic and behavioral factors. | ***Algorithm*** - Logistic regression | ***Cloud -*** Azure, AWS

Chicken disease classification | self project

- I developed a chicken disease classification system using the VGG-19 architecture for accurate disease identification in poultry images
- The project was deployed on Azure and AWS, containerized with Docker, and integrated with MLOps tools DVC and MLflow for streamlined development and deployment.
- This project underscores my proficiency in computer vision, deep learning, cloud deployment, and MLOps practices for real-world challenges.

Master Thesis Project | Prof. P K Dutta, HoD, Dept of Physics **Aug'23-Present**

- Neural Network Powered Pulse Generation using 1D interferometer autocorrelation traces . Dataset was generated using simulation and converted to images (spectrum). CNN architecture was used to build the model to predict electric field out of the inputed spectrum.

Face recognition AI app | Innovation Lab Project. . **Aug'23-Nov'23**

- Developed a face recognition system using Python and deep learning techniques to accurately identify individuals from images and video streams . Libraries like OpenCv is used to capture video and flask is used in deployment.

TRAINING

- Application of Machine Learning in urban studies | IIRS ISRO
- Machine Learning Training | Corizo

CERTIFICATIONS

- Full Stack Data Science course | iNeuron
- The complete Python bootcamp | Udemy
- Supervise Machine Learning | Andrew Ng, Coursera
- Python for Data Science, AI and developement | IBM , Coursera

EXTRA CURRICULAR ACTIVITIES

Under 15 ,16 chess district level participent. Part of Bronze winning illumination 2022 IIT Kharagpur.