**AKSHAD ALONI**

akaloni17@gmail.coml | +91-9373899460 |[GITHUB](https://github.com/Akshad1234) **|** [LINKEDIN](https://www.linkedin.com/in/akshad-aloni-78a887212/)

**Skills**

C++ | C | Python | Data Analysis | Visualization | Machine Learning | Github | Git

**Projects**

[**Breast Cancer Classification**](https://github.com/Akshad1234/Breast-Cancer-Classification)

* Data Analysis and Preparation: Conducted in-depth **exploratory data analysis (EDA)** on the IDC\_regular dataset to identify patterns and ensure data quality, followed by preprocessing steps like resizing, normalization, and data augmentation.
* Model Development and Optimization: Leveraged **Keras** and **TensorFlow** to design and train the **CancerNet CNN**, utilizing analytics to fine-tune hyperparameters for enhanced classification accuracy.
* Performance Evaluation: Analyzed model performance using advanced metrics such as precision, recall, F1-score, and confusion matrix, gaining insights into model reliability for medical diagnostics.

[**Global COVID-19 impact Analysis**](https://github.com/Akshad1234/Global-COVID-19-Impact-Analysis/tree/main)

* Performed data cleaning and exploratory data analysis (EDA) using **Pandas** and **NumPy** to identify global trends in COVID-19 cases, recoveries, and fatalities.
* Developed interactive visualizations using **Matplotlib,** **Seaborn**, and **Plotly**, including time-series plots and geospatial heatmaps, to analyze the pandemic's regional and country-wise impact.
* Analyzed key metrics and correlations using **Scikit-learn** and **GeoPandas** to uncover relationships between socio-economic factors and COVID-19 outcomes, generating actionable insights.

[**Customer Insurance Purchases Case Study**](https://github.com/Akshad1234/Customer-Insurance-Purchases-Case-Study)

* **Developed and evaluated classification models** (Logistic Regression, KNN, SVM, Decision Trees, Random Forest) to predict customer insurance purchases using Python and Scikit-learn.
* **Performed data preprocessing** including handling missing values, feature scaling, and encoding to prepare the dataset for analysis.
* **Optimized model performance** through hyperparameter tuning (GridSearchCV) and evaluated results using metrics like accuracy, precision, recall, and F1-score.

**Achievements**

* **Top 5 Position** at Hackthorn TechManthon as Team Lead of "Code Pandas." Developed a **Data Analytics** and **ML model** to detect human voice and assess its pitch, tone, and clarity.
* **Completed a 10-week internship training program** in Data Science and AI from **IntrnForte**, gaining hands-on experience in machine learning, data analysis, and AI technologies.

**Education**

**Rashtrasant Tukadoji Maharaj Nagpur University(RTMNU), India 2023 - 2027**

Bachelor of Technology CSE(Data Science) 7.77 CGPA(Current)