



YOUNGDEV INTERNS

DATA ANALYST

INTERNSHIP TASKS

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ABOUT THE INTERNSHIP

Internship Details:

Internship Start Date: October 20, 2023

Internship End Date: November 20, 2023

Duration: 1 month,

Location: Remote

Benefits of this internship:

Exposure to real-world projects and industry-standard tools

Guidance from experienced professionals.

A supportive and collaborative work environment.

Opportunity to build a portfolio of your work.

Certificate of completion at the end of the internship

NOTE: DO NOT DO THE TASKS OF ALL 3 LEVELS, DO WHAT YOUR LEVEL IS IF APPLIED FOR EXPERT YOU HAVE THE CHOICE IF FOR INTERMEDIATE ALSO YOU HAVE CHOICE.

TO DO LIST BEGINNER LEVEL USING PYTHON

- **Data Exploration with Pandas:**

- Load a dataset using Pandas.
- Display basic statistics (mean, median, etc.) for numerical columns.
- Count unique values in a categorical column.

- **Data Visualization with Matplotlib/Seaborn:**

- Create a histogram to visualize the distribution of a numerical variable.
- Plot a bar chart to show the frequency of categories in a categorical variable.
- Create a scatter plot to visualize the relationship between two numerical variables.

- **Data Aggregation and Grouping:**

- Group data by a categorical variable and calculate the mean, median, or other statistics for each group.
- Aggregate data on a time series dataset by daily, weekly, or monthly averages.

- **NOTE: DO ATLEAST 2 TASKS TO PASS THE INTERNSHIP AND FOR GETTING A COMPLETEION CERTIFICATE THE TASK WILL NOT BE CONSIDERED IF IT IS NOT POSTED ON LINKEDIN PROFILE MENTIONING COMAPANY NAME @YOUNGDEV INTERNS**

TO DO LIST INTERMEDIATE USING PYTHON

- **Exploratory Data Analysis (EDA):**

Conduct in-depth EDA on a dataset, including identifying and handling missing values, outliers, and data anomalies.

Create various visualizations like histograms, box plots, and heatmaps to understand the distribution and relationships within the data.

- **Data Preprocessing:**

Perform data cleaning tasks, such as standardizing column names, encoding categorical variables, and transforming numerical data.

Merge or join multiple datasets together based on common columns.

- **Time Series Analysis:**

Analyze time series data, including trend and seasonality decomposition.

Forecast future values using time series forecasting methods.

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TO DO LIST EXPERT LEVEL USING PYTHON

- **Deep Learning for Image Classification:**

Build and fine-tune convolutional neural networks (CNNs) for image classification tasks using frameworks like TensorFlow or PyTorch. Explore advanced architectures like transfer learning with pre-trained models and conduct hyperparameter tuning.

- **Natural Language Processing (NLP) Projects:**

Develop advanced NLP models for tasks like machine translation, text summarization, or language generation. Work with transformer-based models like BERT or GPT-3.

- **Time Series Forecasting at Scale:**

Build large-scale time series forecasting models for industries like finance, energy, or demand forecasting. Implement distributed computing with technologies like Dask or Apache Spark.

- **Recommendation Systems:**

Create personalized recommendation systems using collaborative filtering or content-based approaches. Explore matrix factorization or deep learning techniques for recommendations.

- **NOTE: DO ATLEAST 2**

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