

# MUHAMMAD IBRAHIM KHAWER

## Skills

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- Programming: Python (Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch)
- Databases: SQL (SQL Server, MySQL, Oracle)
- Visualization: Tableau, Microsoft Power BI,
- Tools: Excel, Git/GitHub

## Projects

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### DATA PROFESSIONAL SURVEY ANALYSIS

- **Analyzed** a global survey of 630+ data professionals to identify key trends in salaries, in-demand skills, and job satisfaction across different roles.
- Transformed and cleaned the raw dataset using **Power Query**, preparing it for analysis by calculating salary averages and parsing multi-select fields.
- **Designed and developed** an interactive Power BI dashboard to visualize findings, enabling users to filter by country and job title to explore salary distributions and popular programming languages.

### CRYPTOCURRENCY MARKET TREND ANALYSIS

- Collected and analyzed live cryptocurrency market data by leveraging a professional financial **API** to track pricing and percentage changes for top assets.
- Engineered a data pipeline to automate data collection, clean JSON responses, and structure the information into a time-series dataframe for historical analysis.
- Performed trend **analysis** by aggregating and visualizing percentage changes across multiple timeframes (1h to 90d) to identify and compare volatility and performance patterns of different cryptocurrencies.
- Built visualizations using **Seaborn** and **Matplotlib** to illustrate price trends and asset comparisons, providing clear **insights** into market behavior.

### AIRBNB TABLEAU DASHBOARD

- **Analyzed** Seattle Airbnb market data to identify key market trends and investment opportunities.
- Developed an interactive **Tableau** dashboard featuring geographic maps and filters for zipcode and property type.
- **Visualized** data to uncover actionable insights on profitable rental opportunities and seasonal demand patterns.
- Designed user-friendly filters and tooltips to enable dynamic exploration of the data for different user scenarios

## Education

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**ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE** – Houston City College – Houston, TX (Present)

**BACHELOR'S IN ARTIFICIAL INTELLIGENCE** – FAST National University – Karachi, Pakistan (2022-2024)

## Certifications

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Data Science & Analytics by HP  
Machine Learning in Production by DeepLearning.AI  
HackerRank Python(basic)