

ARPITA PATNAIK

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PROFILE

Fast-learning Data Science student skilled in Python, SQL, and Machine Learning with strong analytical and data visualization abilities. Eager to apply statistical knowledge to real-world IT challenges.

EDUCATION

B.TECH in Computer Engineering ,Silicon University	2023 – 2027
12th , K.C. Public School	2022 – 2023
10th, K.C. Public School	2020 – 2021

SKILLS

Programming & Data Handling: Python, SQL, Pandas, NumPy, Scikit-learn

Data Visualization: Power BI, Matplotlib, Seaborn

Machine Learning & Statistics: Supervised & Unsupervised Learning, Model Evaluation, Feature Selection, Statistical Analysis, Probability, EDA

Database & Querying: Advanced SQL, Data Cleaning, Data Preprocessing

Tools & Technologies: Google Colab, Jupyter Notebook, Git, Angular (for frontend data apps), HTML/CSS

PROJECTS

1. Power BI Dashboard – Amazon Global Sales Analysis

- Developed an interactive dashboard using Power BI, DAX, and Excel to visualize Amazon's global sales (2012–2015).
- Analyzed key metrics: sales projections, segment-wise revenue, regional performance, and profitability.
- Implemented dynamic filters, slicers, and map visuals for drill-down insights and user-friendly exploration.
- Enhanced decision-making with clean visual storytelling, consistent design, and performance KPIs.

2. LC50 Fish Toxicity Prediction – Machine Learning Mini Project

- Built a regression model using Scikit-learn to predict LC50 [-LOG(mol/L)] toxicity for fish based on molecular descriptors.
- Performed data preprocessing, exploratory data analysis, feature selection, and model evaluation.
- Used Python (Pandas, NumPy) to identify key molecular traits influencing toxicity levels.
- Helped understand the impact of chemicals on aquatic life, supporting research applications.

3. SmartBiz – Business Management System (Angular)

- Created a responsive business web app in Angular to manage customers, products, and sales transactions.
- Designed real-time dashboards showing sales and inventory updates, simulating business intelligence scenarios.
- Implemented role-based access, route protection, and structured component-based UI using TypeScript and CSS.
- Demonstrated frontend data structuring and dynamic reporting, useful in analytical tool development.

CERTIFICATIONS

- Data Science, ML & Deep Learning Using Python
- Data Science Using Python in Google Colab

ACHIEVEMENTS

- Ranked 7th globally in Code Olympics Season 1 (2021) organized by CodeYoung.
- Participated in an Ideathon conducted by Silicon University. Presented "SafeKey Emergency Alarm Keychain" with my team.