SARTHAK KELKAR

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SUMMARY

Bachelor's in **Artificial Intelligence and Data Science** with a **CGPA of 8.52**, and proven working experience as a **Data Science Intern**. Possess **technical expertise** in the entire **data science lifecycle**, including **data models**, **database design development**, **data mining**, and **segmentation techniques**. Strong knowledge of **SQL**, **ETL frameworks**, and **Tableau**, with hands-on experience in **AWS** through projects. Demonstrated **Python** proficiency with a **4-star rating on HackerRank** and solid experience in **data science projects**—from **web scraping** to the **deployment** of a **Data Science Salary Estimator**. Skilled in **statistics**, **Excel**, and **data visualization**. Excellent communication and presentation skills, honed through **hackathons** where I represented my college, as well as collaboration with **cross-functional teams**.

EXPERIENCE

02/2024 - 03/2024 **Data Science Intern, Remote** — **LearnTricks EduTech**

- Implemented ARIMA models for stock price prediction, optimizing statistical efficiency and reducing data latency.
- Collaborated with data engineers to develop and streamline the data pipeline, enhancing data collection, preprocessing, and ensuring data quality.
- Filtered and cleaned raw datasets to correct errors, improving data accuracy.
- Presented reports on model performance and API architecture to business stakeholders, supporting data-driven decision-making.

01/2023 - 03/2023 **Data Science Intern, Remote** — **Yoshops**

- Built and optimized machine learning models in Python for detecting anomalies in large-scale sales datasets, increasing fraud detection accuracy by 15 percent.
- Developed and automated Python-based data pipelines to streamline data preprocessing and analysis, reducing manual intervention by 30 percent.
- Conducted trend analysis and data cleaning to identify business insights, improving campaign efficiency by 20 percent.
- Used Python libraries (scikit-learn, matplotlib) and SQL to generate detailed visualizations and reports for business stakeholders, driving strategic decisions.

PROJECTS

Python Develop-ment **To-Do List Web Application** — **Github**

- Developed a full-stack to-do list application using Django, enabling users to manage tasks efficiently with CRUD functionality.
- Built REST APIs for task creation, retrieval, updates, and deletion, ensuring smooth client-server interaction.
- Designed the front-end using HTML, Bootstrap, and custom CSS for a responsive and user-friendly interface.
- Integrated SQLite for persistent data storage, ensuring database consistency and scalability.

Data Science **Crop Prediction, Fertilizer Recommendation, and Disease Detection** — **Github**

- Developed a Fertilizer Recommendation System using decision trees and regression models, optimizing recommendations based on crop type and soil characteristics.
- Implemented Random Forest algorithms achieving 99.09 percent accuracy for crop prediction, ensuring efficient data analysis for better agricultural practices.
- Built a CNN-based plant disease classification system, achieving 98.20 percent cross-validation accuracy using ResNet-9 architecture, streamlining disease detection and improving crop health outcomes.

Data Science **Data Science Salary Estimator** — **Github**

- Designed a Data Science Salary Estimator using machine learning algorithms, predicting salaries based on job-related features with high accuracy.
- Collected and preprocessed data from Glassdoor using Python-based data engineering techniques, enhancing feature selection and model performance.
- Utilized pandas, NumPy, scikit-learn for data manipulation, model training, and evaluation, ensuring high precision in salary prediction models.
- Deployed the model using Flask, creating a real-time salary prediction web application with a user-friendly interface for live inputs.

Data Science **Real Estate Price Estimator** **Github**

- Developed a full-stack web application for predicting real estate prices in Bangalore, combining machine learning model deployment with frontend and backend integration.
- Performed data preprocessing, feature engineering, and outlier detection to enhance prediction accuracy, contributing to reliable market insights.
- Utilized Flask for backend development, creating RESTful API endpoints to enable seamless data retrieval and efficient prediction services.
- Deployed a linear regression model on cleaned datasets, delivering accurate home price predictions based on property features and market trends.

SKILLS

Programming Languages:

- Python, C++, SQL

Machine Learning & Deep Learning:

- Supervised Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forests, XGBoost
- Unsupervised Learning: K-Means Clustering, Dimensionality Reduction (PCA)
- Deep Learning Frameworks: TensorFlow, PyTorch
- NLP Techniques: Text Classification, Sentiment Analysis, Word Embeddings (Word2Vec, GloVe)

Data Science Tools:

- Data Analysis: Pandas, NumPy, Scikit-learn
- Data Visualization: Matplotlib, Seaborn, Plotly, Power BI, Tableau
- Statistical Analysis: Hypothesis Testing, Time Series Analysis (ARIMA)

Model Development & Deployment:

- Model Training and Optimization: Hyperparameter Tuning, Cross-Validation, Model Evaluation (Accuracy, Precision, Recall, F1 Score, ROC-AUC)
- Model Deployment: Flask, Django, REST API Development

Data Engineering:

- Data Preprocessing: Data Cleaning, Feature Engineering, Data Wrangling
- Databases: SQL, MongoDB
- Big Data Technologies: Selenium, Apache Spark, Data Pipelines

Cloud Platforms:

- AWS, Azure (for data storage, compute, and deployment)

Other Skills:

- Communication: Technical Documentation, Stakeholder Communication, Data-Driven Presentations
- Problem Solving: Data Structures and Algorithms, Analytical Thinking

EDUCATION

01/2021 - 06/2024 **B.E in Artificial Intelligence And Data Science** **K. K. Wagh Institute Of Engg. College**
CGPA - 8.52

07/2019 - 02/2020 **H.S.C - Science** **Bhimashankar Padalkar Junior College**
Percentage - 70,MHTCET - 94.38

07/2017 - 03/2018 **S.S.C** **Saraswati Vidya Mandir School**
Percentage - 95.20

CO-CURRICULAR

02/2022 **Finalist in Nashik Smart City Hackathon** **Nashik**
Smart Control Of Traffic Light System Using AI.

04/2024 **Participated in TECH-EXPO** **Ahmednagar**
Crop Prediction, Fertilizer Recommendation and disease detection using AI

CERTIFICATIONS

Complete Python Programming - Basics to Advanced Concepts	02/2022
Machine Learning with Python	09/2023
Scientific Computing with Python	01/2022
Django Framework: Build and Deploy Web Application With Python	03/2022
Certificate of Advanced Python for Data Science	11/2021