HARSHOOL ROKADE

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Eligible and open to work from June 2023

Education:

- *MS in Data Science (Minor in Computer Science)*
  Drexel University Anticipated Graduation: 2023
  Relevant Courses: Data Interpretation and Analysis, Data Acquisition and Pre-Processing, Data Structures and Algorithms, Quantitative Foundations of DS

- *BE in Mechanical Engineering*
  University of Mumbai Graduated: May 2022
  Relevant Courses: Operations Research, Database Management Systems, Engineering Mathematics

Experience:

- Instructional Technologist - Data Analytics (Apr 2023 -)
  Location: Drexel University – Office of the Dean
  Tools: MS Excel, Airtable, Postgre SQL, Salesforce
  - Leveraged analytics to improve college rankings
  - Developed CRM and workflow management tools

- Maintenance Engineer - Port Operations (Dec 2019)
  Location: JN Port Authority – Govt. of India
  Tools: Project Management, Root Cause Analysis
  - Delivered end-to-end crane maintenance operations
  - Executed failure analysis and design optimization

Technical Skills:

- Programming Languages: Python, R, Java, C++, C
- Databases Management: Oracle, MariaDB, MySQL
- Data Visualization: Tableau, Power BI, Qlik Sense
- Cloud Technologies: AWS, Google Cloud, Azure
- Web Frameworks: Flask, Django, Fast API, CherryPy
- Python Libraries: Numpy, Pandas, Seaborn, Matplotlib

Achievements:

- 1st Place at The Social Justice Hackathon (Oct 2022)
  at Drexel - Kline School of Law, Philadelphia
- Data Science Program Dean's Fellowship (Mar 2022)
  By Drexel - College of Computing and Informatics
- Quantitative Finance Student Scholarship (Mar 2022)
  By Temple University – Fox School of Business

Certifications:

- Supply chain Principles – Coursera, (March 2021)
- Product Management Fundamentals – edX, (Feb 2021)
- Technology Consulting Certificate - Deloitte,(Nov 2020)
- Investment Banking Certificate - Citi APAC, (Oct 2020)

Activities and Organizations:

- Research Lead / Liaison at Drexel Blockchain Club
- Events Manager at Drexel Mathematics Organization

Interests:

- Entrepreneurship: Bootstrapped a Real Estate Startup
- Reading books: Philosophy, Fiction and Astrophysics
- Playing Sports: Cricket, Soccer and Lawn Tennis
- Mental Math: Solving puzzles and brain teasers

Projects:

- **Data Pipeline using Twitter API** (Data Engineering)
  Tools: AWS, Apache Airflow, Visual Studio Code (Mar 2023)
  - Designed and implemented a scalable data pipeline by leveraging Twitter API and Airflow to transform real-time data (millions of tweets)
  - Deployed the solution on EC2 and saved processed data on Amazon S3, improving data acquisition process for further business insights.

- **Sales Insights Data Analysis** (Data Visualization)
  Tools: SQL, Tableau, Power BI, Microsoft Excel (Mar 2023)
  - Utilized data analysis and visualization tools for data cleaning and building interactive dashboards for computer hardware sales data
  - Discovered and reported various factors affecting revenue and profits followed by successful communication and feedback of the metrics

- **Real Estate Price Prediction** (Machine learning)
  Tools: AWS, Flask, HTML/CSS/JavaScript, gridsearchcv (Feb 2023)
  - Developed and deployed a real estate price prediction website, cleaning the data followed by building a model using Scikit learn
  - Utilized Python Flask to serve HTTP requests, after performing extensive feature engineering and reducing the error near to 16%

- **Disease Classification using CNN** (Deep Learning)
  Tools: TensorFlow, Fast API, React JS, GCP IDG (Feb 2023)
  - Executed end-to-end deep learning project for potato disease classification, utilizing FastAPI server, and ImageDataGenerator.
  - Deployed model on GCP and created React Native mobile app for user convenience, streamlining the disease detection process.

- **AI-Powered Bot with ChatGPT API** (Artificial Intelligence)
  Tools: openai, PyQt5, Visual Studio Code, Python (Nov 2022)
  - Created an AI-powered chatbot in Python, using the openai API for tailored customer interactions with human-like communication
  - Impact on business efficiency by providing features like quick button options of FAQs, from past data, to save customer time by up to 30%

- **Object Detection and Classification** (Computer Vision)
  Tools: Docker, OctoML CLI, PyTorch, GitHub, Python (Nov 2022)
  - Developed and deployed a scalable model for object detection with up to 90-95% accuracy, for recognition in images and short videos
  - Followed by successful image classification of the objects utilizing PyTorch and optimized deployments in OctoML and Docker

- **Sentiment Analysis of Reviews** (Natural Language Processing)
  Tools: Comet, Scikit Learn, Python (Oct 2022)
  - Analysed movie reviews as positive or negative by leveraging NLP techniques and developing a classification model from the data
  - Using the Distil Bert model for building, the comet interface for visualization and metric evaluation, and reasoning of the prediction

- **Retail Store Demand Forecasting** (Time Series Analysis)
  Tools: Upgini, Catboost, Pandas, NumPy, Collab (Oct 2022)
  - Applied extensive feature engineering and modeling techniques in conjunction with UPGini along with CatBoost for gradient boosting
  - Achieved a 14% error rate leading to detailed insights into the driving factors of sales, for the implementation of effective sales strategies.