Abraham Prabakar

Data Analyst
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GitHub | **HackerRank** | **Linkedin** | **Blog**

Education

Hindusthan College of Engineering and TEchnology — Coimbatore
Artificial Intelligence and Machine Learning Bachelors — June 2020 - April 2024
CGPA: 8.5

Experience

Exposysy Data Labs | Data Analyst Intern — Bengaluru, India | March 2023 - April 2023

1. I assisted in collecting, cleaning, and organizing data from various sources to ensure data quality and consistency.
2. Worked on conducting preliminary data analysis, generating insights, and visualizing data patterns using Python Pandas Framework.
3. Collaborated with the data team to develop and evaluate predictive models for data-driven decision-making, with a focus on [Patient analysis, e.g., "Diabetes Prediction"].
4. Created data visualizations and reports to effectively communicate findings and insights to cross-functional teams.
5. Work closely with experienced data analysts, data scientists, and other team members to contribute to data-related projects and initiatives.

Skills

Programming Languages:	Python, MySQL
Libraries/Frameworks:	Numpy, Pandas, Scipy, ScikitLearn, Matplotlib, Pyplot, seaborn, BeautifulSoup, Data Visualization
Tools / Platforms:	Pycharm, Vscode, Idle, MySQL, Microsoft Power BI, Microsoft Excel

Projects / Open-Source

Diabetes Prediction using Python | Link — *Python, Database Anlaysis, Machine Learing Algorithms*

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Lane line Detection | Link — *Python, OpenCV, Numpy, Pandas, Matplotlib*

1) Gather a dataset containing images or videos of roads with lane lines. Preprocess the data by resizing, cropping, and converting the images to grayscale.
2) Apply edge detection techniques such as Canny edge detection to detect edges in the images.
3) Select the region of interest in the image where the lane lines are expected to be present. Mask the rest of the image to reduce noise.
4) Apply the Hough transform to detect lines in the region of interest. Use probabilistic Hough transform for faster processing.
5) Average and extrapolate the detected lines to form continuous lane lines. Draw the lane lines on the original image or video.

Certifications

- Python Intermediate - **Hackerrank**
- Data Anlayst Intern - **Exposys Labs**
- Database Management System -I - **Infosys**
- Database Management Systems - II - **Infosys**
- Introduction to NoSQL Database - **Infosys**

Honors & Awards

Has Been the Student Commitee Member and Class Representative for 2 years.

Lead my Team to final round of Hackathon

III - Place Winner in Intercollege Project Exhibition