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TECHNICAL SKILLS:

LANGUAGES	FRAMEWORKS	LIBRARIES
1.C	1.Tensorflow	1.Numpy
2.Python	2.Pytorch	2.Pandas
3.C++	3.Keras	3.Matplotlib
4.SQL	4.Scikit-learn	4.Seaborn
	5.Pyspark	

TOOLS	EDA
1.Firebase	1.Data Cleaning
2.Docker	2. Data Visualization
	3.Feature Engineering
	4.Outlier Detection
	5.Statistical Analysis

EDUCATIONAL DETAILS:

- Bachelor of Engineering in Artificial Intelligence and Data Science , Velammal Engineering College, Chennai (2023-2027)
  CGPA:8.58/10
- Higher Secondary (Class XII) – Kamaraj Matriculation Higher Secondary School,Kovilpatti (2022-2023) | Percentage: 82%

ACHIEVEMENTS:

- 2nd Prize in Web Designing Competition, Jeppiar Institute of Technology.
- 2nd Prize in SindhanAI'25 Hackathon, SRM TRP College of Engineering, Trichy.
- 2nd Prize in Velammal Hackathon's,Velammal Engineering College.
- 1st Prize in Pyspark Course Project,Velammal Engineering College.
- **Presidio Internship – Department Selection**
  Selected as one of 14 students for internship opportunity at Presidio, recognizing strong technical and academic performance.
- **SIH**-Contributed to software implementation role of a project as part of a team recognized at intercollege-level.

PROJECT EXPERIENCES:

1.Intruder Detection Smart Alert System For Visually Impaired Person:

- Developed an intelligent security system using YOLOv8, MediaPipe, and Firebase to detect suspicious behavior, weapons, or masks in real time.
- Integrated pose estimation, geolocation, and voice feedback for advanced threat analysis and emergency response, with automated alert delivery via Twilio.

2. Machine Failure Prediction Using Pyspark:

- This PySpark-based Machine Failure Prediction system preprocesses sensor data, handles outliers, and uses feature engineering and a Random Forest classifier to predict machine failures.
- It also supports real-time user input for failure prediction and saves results for further analysis.

3. Iris Classification:

- This code builds an Iris flower classification pipeline using multiple machine learning algorithms (Decision Tree, SVM, Random Forest, and Voting Classifier).
- It includes data preprocessing, model training, evaluation, cross-validation, and hyperparameter tuning to optimize model performance.

4. Heart Disease Prediction:

- I built a logistic regression model to predict heart disease using cleaned and scaled data. I handled missing values, encoded categories, and evaluated the model with accuracy and confusion matrix.

5. Design a Bakery site website:

- This project showcases a beautifully crafted, user-friendly web design with an elegant and responsive layout using HTML AND CSS.

LEADERSHIP:

- Led a 4-member team in **PySpark** course project presentation; implemented feature selection and won out of 15 teams competition.
- Led a 2-member team as a **visually impaired team leader**; achieved 2nd place out of 400 participants for innovative solution and teamwork.
- **MSME Innovation Project** – Idea selected at intercollege level; led a **5-member team** in project design and presentation out of 40 teams.

SOFT SKILLS:

- Leadership
- Team Work
- Creative Thinking
- Project Management