POORNACHANDRA DH

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Passionate About Building Scalable AI-Driven Solutions That Solve Real-World Problems

EDUCATION

PES COLLEGE OF ENGINEERING (Formerly PESCE), Mandya   **2023-2027**
Bachelor of Engineering , Information Science

BGS PU COLLEGE ,   **2021-2023**
STATE - PCMB - 87%

PROFESSIONAL EXPERIENCE

IndiTronix AI Labs   **IIT Patna, India**
AIML Intern   **Nov, 2025- Present**
Heart Sound Classification Using Deep Learning

- Developed a deep learning model **(RDLINet)** to classify **normal** and **abnormal** heart sounds using the PhysioNet 2016 dataset.
- Processed **3,249 audio files** into **47,986 mel spectrogram** samples with audio augmentation techniques.
- Achieved **96.21% test accuracy** and **0.995 AUC**, outperforming existing baselines.
- Implemented **robust evaluation** and visualizations to interpret model decisions and ensure **clinical reliability**.

PROJECTS

- **Brain Tumor Detection using YOLO** - Developed an AI model using **YOLO** to assist in fast and accurate brain tumor detection from MRI images
- **Helmet Detection using YOLO** - Implemented a real-time helmet detection model with YOLO to enhance worker safety and automate compliance checking.
- **Customer Categorization using Clustering** - Developed an ML-based customer segmentation system using **clustering** to improve targeting and category prediction.
- **Spam-Ham Detection** - Implemented an ML-based text classification model improving spam detection accuracy through preprocessing and feature engineering.
- **Other projects include**   - Phishing Classifier , Child Birth Weight Prediction , Crop Disease Detection , Personal AI Assistant , Climate and Weather Prediction , Diabetic prediction , **20+ Freelance Projects** and more .

TECHNICAL SKILLS

Python, Pandas, NumPy, SQL, Machine Learning, Deep Learning, Natural Language Processing, Generative AI, ScikitLearn, Data Analytics,Matplotlib ,Seaborn, GitHub, MongoDB, Docker, MLOps, Power BI, Computer Vision ,TensorFlow, Pytorch, Jupyter Notebook , Google Colab