P SAIKRISHNA PATRO

Computer Science Engineer — AI & Machine Learning

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PROFESSIONAL SUMMARY

AI Engineering professional with hands-on experience in Machine Learning and Deep Learning projects. Proficient in Python, scikit-learn, PyTorch, TensorFlow, and data preprocessing. Seeking internship opportunities to apply technical skills and contribute to impactful AI solutions.

PROJECTS

1. Breast Cancer Detection from Mammograms using YOLO & CNN
Designed and implemented a hybrid deep learning pipeline combining YOLO for tumor localization and a CNN classifier for malignancy detection. Applied data preprocessing, augmentation, and false positive reduction techniques. Achieved **97% accuracy**. Currently writing a research paper.

2. Mental Health Analyzer using NLP and BERT # Live Demo
Developed a deep learning model using BERT Transformer to analyze user text and classify mental health states such as anxiety, depression, suicidal, stress, or normal. Achieved **90% accuracy**.

3. Person Detection from Video using YOLOv8 # Live Demo
Developed a real-time person detection system using YOLOv8 and OpenCV to detect and track individuals from images, video files, and video URLs including YouTube. Integrated Streamlit for the frontend and FastAPI for backend communication, displaying bounding boxes and real-time person counts. Applicable to surveillance, public safety, and smart analytics systems.

4. DocuChat: Document Q&A and Summarization Chatbot using Gemini API # Live Demo
Built an intelligent chatbot to interact with uploaded documents, answer questions, and generate concise summaries using Gemini API, demonstrating LLM integration.

EDUCATION

NIST University, Berhampur, Odisha   **2022 – Present**
Bachelor of Technology in Computer Science and Technology
CGPA: 7.25 / 10.00

Binayak Acharya College, Berhampur, Odisha   **2019 – 2021**
Intermediate — Percentage: 60%

Govt High School Medical Campus, Berhampur, Odisha   **2019**
Matriculation — Percentage: 60%

SKILLS

Technical Skills

- **Programming:** Python, C, C++, Java
- **Web:** HTML, CSS, JavaScript
- **Databases:** MySQL, MongoDB
- **Tools:** Git
- **Concepts:** ML, DL, YOLO, XAI, NLP

Soft Skills

- Teamwork
- Problem Solving
- Adaptability
- Work Ethic
- Creativity
- Attention to Detail
- Active Listening

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