PONNAPALLI POORNA SANDEEP

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Profile Summary

I am a passionate Software Engineer specializing in AI and ML, dedicated to delivering high-quality solutions. My experience in developing innovative machine learning models and collaborating with teams equips me to tackle complex challenges. I am eager to learn and grow within a forward-thinking organization, contributing to impactful projects while enhancing my technical skills

Work Experience

Software Engineer – Lyros Technologies PVT LTD
Domain: Artificial Intelligence and Machine Learning (AIML)
Duration: [January 2025 – Present]
Responsibilities:

- Worked on AI/ML-driven projects involving data preprocessing, model development, and deployment.
- Collaborated with cross-functional teams to design and implement machine learning solutions.
- Contributed to automation tools and model optimization for real-world applications.

Technical Profile

TECHNICAL

• Programming: Python, Java, C

• AI/ML: TensorFlow, PyTorch, Scikit-learn, NLP

• Cloud: AWS (EC2, S3, IAM, Lambda, SageMaker)

• Web: HTML, CSS, Flask, Streamlit

• DevOps: Docker, Kubernetes, CI/CD

Functional: Team building, Project management, Excellent Communication, Interpretation Skills and Quick Learner.

Projects

Diabetes Prediction System

Machine Learning Model | Python, Scikit-learn, Pandas

- Developed logistic regression model achieving 78% accuracy in diabetes prediction
- Performed comprehensive EDA and feature engineering on Pima Indians dataset
- Implemented data preprocessing pipeline for real-world clinical data

Bike Sharing Demand Prediction

Time-Series Forecasting | Python, XGBoost, Random Forest

- Built ensemble models with R2 score of 0.89 on test data
- Reduced prediction error by 22% through feature engineering
- Identified key factors influencing bike rental patterns

Smart Tax Calculator

• Streamlit application for Indian income tax

• Served 5,000+ monthly users

• Technologies: Streamlit, Pandas

Internship

AWS FUNDAMENTAL
Duration Period: February 2024 to April 2024
Company: HMI Engineering services, Vizag
Description: Configured and managed Amazon EC2 instances to host and deploy applications, ensuring optimal performance and cost efficiency also Implemented secure and scalable storage solutions using Amazon S3 and Designed and enforced access control policies using AWS IAM to ensure secure resource management.
AWS Services Used: EC2, S3, IAM, VPC, Cloud watch.

Academic Project

Project Name: "PRIVACY PROTECTION AND INTRUSION AVOIDANCE FOR CLOUDLET BASED MEDICAL DATA SHARING"
Project Description: With the popularity of wearable devices, along with the development of cloud and cloudlet technology, there has been increasing need to provide better medical care. The processing chain of medical data mainly includes data collection, data storage and data sharing, etc
The trust model also helps similar patients to communicate with each other about their diseases. Finally, to protect the healthcare system from malicious attacks, we develop a novel collaborative intrusion detection system (IDS) method based on cloudlet mesh, which can effectively prevent the remote healthcare big data cloud from attacks.

Higher Education

 Master Of Computer Applications (MCA), Sri Y.N. College, Narsapur.

Languages

- English
- Telugu
- Hindi

Personal Information

- Date Of Birth: 09/10/2000
- Gender: Male
- Place: Andhra Pradesh