


Prianshu Jha

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EXPERIENCE

SarvM.ai

Oct 2024 – Present

AI Intern

Remote

- Improved fuzzy string-matching precision by 15% through advanced text processing and encoding optimization.
- Fine-tuned pre-trained models for Voice Synthesis and Cloning, improving output quality by 10% (MOS).
- Researched and integrated advanced AI algorithms for dialect-independent audio transcription, product search optimization.
- Deployed AI models using PyTorch and TensorFlow, reducing inference latency by 25%.
- Reduced AI model training time by 20% through efficient resource allocation and workflow enhancements.

EDUCATION

Thapar University

June 2024

Bachelor of Engineering in Computer Science

GPA: 7.55/10.0

SKILLS

Languages: C++, Java, Python, SQL, Bash

Tools and Frameworks: Git/GitHub, Linux, Excel, Flask, Colab, WSL, Terraform

Technologies: Machine Learning, Data Structures & Algorithms, Deep Learning

Libraries: Pandas, NumPy, scikit-learn, TensorFlow, Pytorch, NLTK

PROJECTS

NetProbe: Deep Learning-Driven DDoS Detection with a Two-Tiered Mitigation Strategy

Graph Neural Networks, Bi-directional LSTM, CICDDoS2017, Apache2

May 2024

- Led development of a Deep Learning DDoS Detection system using Graph Neural Networks, time series-based models like Bi-directional LSTM models with attention layers and ensemble learning-based models.
- Integrated with Apache server for attack simulations and created a custom dataset from real-time packets.
- Implemented automated IP blocking for real-time defense with 93% accuracy, using a two-layer approach, transfer learning, and ensemble modeling.
- Repository: github.com/prianshujha/NetProbe
- Publication:** “NetProbe: Deep Learning-Driven DDoS Detection” at ICDCN 2025, ACM.

Fed-Avis: Federated Learning Anti-Vehicle Infiltration System

TinyYOLOv4, MobileNetV2, Azure IoT Hub, Raspberry Pi

Dec 2023

- Developed cost-efficient system to detect non-military vehicle intrusion, reducing costs by up to 50%.
- Leveraged federated learning for continuous model improvement, boosting accuracy by 20% per cycle.
- Employed lightweight deep learning models with Azure IoT hub and Raspberry Pi.
- Publication:** “Fed-Avis” at ICDCN 2024, ACM doi:10.1145/3631461.3631957

File Encryption Utility

Java, Maven, AES-128, JUnit, Log4j, GitHub Actions

Feb 2025

- Designed a secure command-line utility for file encryption/decryption using AES-128 with multi-threading support, efficient I/O streams, and Java Security package implementation.
- Integrated DevOps practices including CI/CD pipeline with GitHub Actions, Docker containerization, and automated JUnit testing.
- Repository: github.com/prianshujha/file-encryption-utility

AWARDS AND LEADERSHIP

Best Paper Award - MLBSS Workshop, ICDCN 2025, IIT Hyderabad

2025

ACM Professional Membership - Awarded by ACM in recognition of research publication

2024

Thapar Mathematical Society - Member

Aug 2021 – June 2024

Thapar Institute Counselling Cell - Mental Health Student Ambassador

Mar 2021 - June 2024