Jeet Bharadwaj

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Profile Summary

A motivated and analytical Computer Science student with a passion for building intelligent systems to solve complex problems. Specialized in **end-to-end Machine Learning pipelines**, with hands-on project experience in **Explainable AI (XAI) for cybersecurity** and **Convolutional Neural Networks (CNNs) for medical imaging**. Eager to leverage strong skills in Python, TensorFlow, and AWS to contribute to a forward-thinking organization as an AI/ML Engineer or Intern.

Education

- **Amity University, Patna** **Expected May 2026**
  B.Tech in Computer Science & Engineering *CGPA: 7.1/10.0*

Technical Skills

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

AI/ML Frameworks: TensorFlow, Keras, Scikit-learn, OpenCV, PyTorch (Intermediate)

Data Science: NumPy, Pandas, Matplotlib, Seaborn, SHAP, LIME

Cloud & DevOps: AWS (EC2, S3), Docker, Git/GitHub, Linux, REST APIs

Web Development: React, Node.js, Express.js, MongoDB (MERN Stack), HTML/CSS

Core Concepts: Data Structures & Algorithms, OOP, System Design, Database Management

Professional Experience

- **Purezza Technologies** **17th September, 2025 : 18th December 2025**
  AI/ML Intern (Remote) *Patna, India*
  - Developed and fine-tuned a TensorFlow-based image classification model, improving its accuracy by 12% through strategic data augmentation and hyperparameter tuning.
  - Engineered a data preprocessing pipeline using Pandas and NumPy to clean and normalize a dataset of over 10,000 entries, reducing model training time by 20%.
  - Collaborated with a remote team using Git for version control and documented model performance, contributing to a key client-facing computer vision project.

Projects

- **Malicious App Detection using Explainable AI (XAI)** GitHub Link — LinkedIn Post
  - Developed a CNN model in TensorFlow to classify Android apps as malicious or benign by analyzing their bytecode.
  - Implemented XAI techniques (SHAP, LIME) to trace influential features back to smali code, successfully identifying suspicious instruction sequences and permission requests.
  - Created a novel framework for pinpointing the source of malware, moving beyond simple classification to provide actionable security insights.

- **Pneumonia Detection from Chest X-Rays** GitHub Link — LinkedIn Post
  - Built and trained a CNN from scratch using TensorFlow/Keras to diagnose pneumonia from a dataset of over 5,800 chest X-ray images.
  - Implemented image augmentation (rotation, zoom, flips) to prevent overfitting and improve model generalization, achieving a validation accuracy of over 90%.
  - Evaluated model performance using a confusion matrix and classification report to ensure high precision and recall for clinical application.

- **Fitness Platinum Gym (MERN Stack Application)** GitHub Link
  - Engineered a full-stack web application for gym management using the MERN stack (MongoDB, Express.js, React, Node.js).
  - Designed and implemented features for user authentication, membership registration, workout plan management, and a client review system.

Achievements & Leadership

- **Top 5% Finisher:** Placed among the top performers in the college-wide coding competition (2024).
- **Runner-up, Amispradha 2.0:** Awarded for presenting an innovative ML-based idea to a panel of judges.