Piyush Chawla

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Education

Thapar Institute of Engineering And Technology May 2026
B.E. Electronics and Computer Engineering (CGPA: 7.22 / 10.00) *Patiala, Punjab*

Experience

Mira Tech | *Freelance ML Intern* Jan 2025 – Mar 2025
- Architected and delivered a personalized course recommendation system that boosted user engagement by **38%** and increased retention by **15%** through analysis of **10,000+** user sessions.
- Engineered scalable data transformation pipelines for event logs, reducing data processing time by **95.8%** and accelerating feature delivery cycles by **66%**.

Projects

AI Study Buddy | *Kubernetes, Docker, Jenkins, ArgoCD, GCP* July 2025
- Engineered a containerized AI service using Docker, architected for scalable, high-concurrency deployment on a Kubernetes cluster.
- Implemented a fully automated GitOps CI/CD pipeline with Jenkins and ArgoCD, enabling zero-downtime, continuous deployment from commit to production.

Phishing Website Detector | *Python, AWS, MLOps, Docker, GitHub Actions* Jan 2025
- Engineered a high-recall (**0.993**) phishing detection model to minimize security threats, achieving **0.98** Precision and a **0.99** F1-Score.
- Designed and implemented a robust MLOps pipeline using **DVC** for data versioning and **MLflow** for experiment tracking, featuring automated data drift alerts to trigger model retraining.
- Automated a batch prediction system on **AWS** by building a **GitHub Actions** CI/CD pipeline that containerized the model with **Docker** for daily deployment to an **EC2** instance.

Hindi Text Summarizer | *PyTorch, TensorFlow, Keras, NLP* Nov 2024
- Built and trained a sequence-to-sequence Transformer model from scratch for abstractive Hindi news summarization, achieving a **ROUGE-1 F1** score of **0.67** on a **300k**-article corpus.
- Implemented Multi-Head Attention with custom masking and integrated pre-trained **FastText** embeddings to capture long-range dependencies.

Leadership Experience

National Product Manager July 2024 – June 2025
AIESEC in India (National Office) *Remote*
- Directed product strategy for **10 national chapters**, cutting reporting time by **25%** and increasing execution accuracy by **45%** with new operational frameworks and tracking tools.
- Drove a **50%** uplift in chapter performance metrics by cultivating international partnerships and delivering targeted training programs.

Head of Incoming Operations Feb 2024 – Jan 2025
AIESEC in Patiala *Volunteer*
- Lead a **50+ member team** to achieve the **#1 rank in India**, securing the National (Top 1/22+) and Asia Pacific (Top 1/150+) Excellence Awards.
- Launched the "Incoming Global Teacher" product, securing **3 local clients** and **15+ teachers**, while expanding partnerships by presenting at **8+** conferences.

Technical Skills

Languages: Python, SQL, C++, Bash
Machine Learning & MLOps: Scikit-learn, PyTorch, TensorFlow, Keras, Natural Language Processing (NLP), MLflow, DVC
Cloud & DevOps: AWS (EC2, S3, RDS, EKS, IAM, VPC), Docker, Kubernetes, Jenkins, ArgoCD, Git, GitHub Actions
Databases: PostgreSQL, MongoDB