Shreya Pillai

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Objective

Motivated software engineer with expertise in Artificial Intelligence (AI), Machine Learning (ML), and full-stack development. Adept at implementing scalable solutions using TensorFlow, PyTorch, Flask, and React. Focused on leveraging technical skills to deliver measurable results and impactful innovations.

Education

Pune Institute of Computer Technology, Pune   Jul 2026
B.E. in Electronics and Telecommunication (Honors in AI-ML) — GPA: 9.20
Key Courses: Deep Learning, NLP, Full-Stack Development, Cloud Computing

The Bishop's School, Pune   Jul 2022
Class 12: **95%+**

The Bishop's School, Pune   Jul 2020
Class 10: **95%+**

Skills

Programming Languages: Python, Java, C++, Dart, SQL, C
Frameworks & Tools: TensorFlow, PyTorch, Django, Flask, React, Flutter, scikit-learn, BERT, Figma
Core Skills: Machine Learning, Neural Networks, NLP, Full-Stack Development, Cloud Computing
Soft Skills: Leadership, Problem-Solving, Collaboration
Languages: English, German, Hindi, Telugu, Kannada, Marathi

Achievements

- Finalist, Rajasthan Police Hackathon 1.0 (Jury Mention) - Winner, UNESCO Media Literacy Award - ISC English Topper, 2022 - Co-authored research paper: **"Ensemble Retinal Disease Classification with ResNet50 and InceptionV3"** (under review)

Experience

Froncort.ai — Student Intern   Oct 2024 – Present
- Improved text analysis accuracy by 30% by fine-tuning **LLMs** (BERT, GPT). - Developed and deployed a **Flask-based chatbot**, reducing response times by 25% and increasing reliability. - Automated data preprocessing workflows, cutting processing time by 20%.

Google for Developers (Virtual) — Student Intern   Oct 2024 – Dec 2024
- Designed a mobile app with ML features using **OpenCV** and **TensorFlow**, boosting user efficiency by 40%. - Optimized **Keras API** pipelines for training and inference, reducing model latency by 30%. - Enhanced UI/UX via **Android Studio**, improving accessibility by 25%. - Performed debugging and testing to achieve 98% reliability across platforms.

Certifications

- **Career Essentials: Generative AI and Software Development** — Microsoft and LinkedIn - **Cybersecurity Basics** — Coursera - **Neural Networks and Deep Learning** — Udemy

Projects

FIR Analysis System (React & Django)
- Developed an **NLP-powered tool** for crime data classification with 85% accuracy. - Built an intuitive **React frontend** and secure Django backend for scalable performance. - Applied feature engineering to enhance analytics, improving insights by 20%.

Credenz 24 Mobile App (Flutter)
- Built an event management app with real-time notifications, boosting user engagement by 30%. - Streamlined backend operations, reducing load times by 25%. - Designed a user-friendly UI/UX, increasing retention rates by 20%.

Night Vision Object Detection (YOLO & Arduino)
- Created a **YOLO-based detection system** for low-light scenarios, achieving 92% accuracy at 30 FPS. - Integrated **Arduino hardware** for real-time tracking, ensuring stability. - Simplified system calibration, cutting setup time by 40%.

Activities

Joint Secretary, PICT IEEE Student Branch
- Organized 10+ technical workshops and hackathons, increasing participation by 50%. - Published *Ping*, an IEEE newsletter on emerging technologies, growing readership by 35%.

Deputy Head, PICT DEBSOC
- Coordinated inter-collegiate debates and public speaking sessions, improving member skills. - Supervised event logistics and managed teams for seamless execution.