SHIVAM KUMAR PANDEY

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Education

Indian Institute of Information Technology, Vadodara **Dec 2021 - May 2025**
Bachelor of Technology - Computer Science and Engineering *Gujarat, India*

Skills

Domains	:	AI/ML, Computer Vision, LLM, CNN, Data Analytics, Data Structure and Algorithms
Languages	:	Java, Python, C#.NET
Libraries	:	OpenCV, Mediapipe, Pandas, Tensorflow, Yolov8, ReactJs, Node Js, Express Js
Databases	:	MySQL, PostgreSQL, MongoDB, Firebase
Cloud	:	Amazon SageMaker, Amazon EC2, Amazon S3 Bucket
Dev Tools	:	Visual Studio Code, Android Studio, Git, Github
Soft Skills	:	Teamwork, Leadership, Management, Finance & Stock Market

Work Experience

Rayole Software **Remote**
Software Developer Engineer *June 2025 - Present*
- Developed and published 7 android apps which currently have **400k+ users registered** across all apps.
- Managing and Analyzing postbacks, status and other important fields of the user base.
- Integrated 4 Android Native plugins which is used to detect Usage Stats Access and Android id, showing ads and forbidding VPN.
- Developed two AI models in two apps that gets trained as the user interacts with the apps.
- Tech Stack: Java, MySQL, C#.NET, Python, Firebase

InnogenX **Bangalore**
Software Developer Intern *Jan 2025 - May 2025*
- Developing the backend for a project, managing asset uploads to AWS and integration with the frontend.
- Successfully integrated a language translation API(100% effective) and implemented AWS Polly for text-to-speech.
- Tech Stack: Python, C#. NET, Amazon S3, AWS Polly

Bunny Bucks **Remote**
Data Analytics Intern *Sep 2024 - Jan 2025*
- Developed Python scripts for cleaning and preprocessing loan application data and implemented predictive models using Scikit-learn to assess loan approval probabilities.
- Created a centralized MySQL database to manage loan data and designed Power BI dashboards to visualize approval rates and demographic trends for data-driven decisions.
- Tech Stack: Python (Pandas, NumPy, Scikit-learn, Matplotlib), MySQL, Power BI

Creative Interfaces Lab **Delhi**
Research Intern *May 2024 - Aug 2024*
- Developed and tested frontend of AR and VR Sanskrit learning prototypes.
- Implemented auditory experiences in Sanskrit.
- Tech Stack: Augmented Reality, Virtual Reality

Projects

Explainable Visual Risk Analysis System for Construction Safety | *Python, Object Detection, OpenCV, Yolov8s* − [Link]
- Built an explainable computer vision system using a YOLO-based object detection model to extract visual entities, followed by geometry-based reasoning and rule-driven risk assessment.
- Developed a full-stack demo application using Node.js, Express, and React to handle image uploads and visually present detection results and risk explanations.
- Integrated an LLM strictly for post-inference explanation generation from structured risk data, ensuring explainability without hallucinated visual reasoning.

AR Chat | *React.js, MongoDB, Unity, C#, Photon Networking, OpenCV, Computer Vision* − [Link]
- Pioneered 'AR Chat,' transforming 2D chats into immersive 3D experiences with emotion-responsive avatars.
- Differentiated the product by introducing innovation of 3D chatting catching with your real emotions.

Achievements

∗ Research Paper accepted at IEEE-IATMSI 2025. Won 2nd Best Paper Award in the conference