

RISHI JHA

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Education

VIT-AP University

Bachelor of Technology in Computer Science and Engineering; CGPA: 8.34/10

Aug. 2022 – May 2026

Amaravati, Andhra Pradesh

Experience

Sunmarg India

July 2026 – Present

Web Developer

Virar, Maharashtra

- Built and deployed 4 client websites solo with React, TypeScript, and Vite, handling everything from client requirements to production deployment on Vercel.
- Shipped prayagsteel.in for Prayag Steel & Engineering, including an SEO plan to help their product pages surface better in search, and a blog section with Sanity for ease of use.
- Worked alongside a team to design the standard layout template used across client sites, focused on consistent UI/UX.

Projects

Kasparro - Cryptocurrency ETL Pipeline | *Python, PostgreSQL, Docker, AWS ECS, Terraform*

December 2025

- Built an async FastAPI backend ingesting 500+ cryptocurrency records from 3 sources (CoinGecko API, RSS feeds, CSV) with checkpoint-based incremental ETL and idempotent writes using SQLAlchemy.
- Built a token-bucket rate limiter with exponential backoff, plus schema drift detection via fuzzy matching to catch quality regressions before they hit the pipeline.
- Normalized entities across 3 sources into 477 canonical assets from 535 raw cross-source mappings, so the same coin could be compared regardless of which source reported it.
- Deployed on AWS ECS Fargate with hourly ETL runs scheduled via EventBridge.

Retinal Multi-Label Classification | *Python, TensorFlow/Keras, U-Net, Grad-CAM*

January 2026

- Designed a 5-stage automated pipeline combining U-Net segmentation, CNN feature extraction, Liquid Neural Network classification, and Grad-CAM explainability for multi-label retinal disease classification across 8 categories on the ODIR-5K dataset.
- Improved mean ROC-AUC from 0.8287 to 0.8806 by combining CNN and LNN architectures, trading off some precision for the higher sensitivity needed in population screening.
- Used Grad-CAM to check that the model was actually attending to clinically relevant retinal regions, not spurious patterns, before trusting its predictions.

NeuroASHA - Dementia Prediction & Detection | *Python, TensorFlow, Transfer Learning*

January 2025

- Developed and evaluated CNN, transfer-learning, and Vision Transformer architectures for MRI-based dementia classification using ADNI and OASIS benchmark datasets.
- Built the preprocessing, augmentation, and class-balancing pipeline used to compare the architectures on equal footing.
- Achieved 92.4% test accuracy with a Vision Transformer model and deployed an interactive Streamlit application for real-time image inference and confidence visualization.

Technical Skills

Languages: Python, TypeScript, JavaScript, SQL, Java, C#

Backend & Infra: FastAPI, Node.js, PostgreSQL, SQLAlchemy, Docker, Terraform, AWS (ECS, EventBridge)

Frontend: React, Vite, Tailwind CSS, HTML/CSS

ML & Data: TensorFlow, Keras, Scikit-learn, NumPy, Pandas, OpenCV

Tools: Git, GitHub, Vercel, Jupyter Notebook, Kaggle

Leadership / Extracurricular

VIT-AP, Milestone Technical Club

Aug 2023 – November 2024

Website Development Team Lead

Amaravati, Andhra Pradesh

- Led a team of 5 to build a full-stack blogging platform on Django, covering user auth, profile management, and article publishing.
- Built the backend for password recovery, session handling, and fully secure CMS.

Model United Nations Club

December 2024 – January 2026

Vice-President

VIT-AP University

- Organized and Coordinated the largest MUN event in the University, managing 30+ club members over 5 teams.
- Oversaw and Mentored the Design team and Social Media team, capturing an engagement of 28K on social media.
- Led the development of the Club website, driving collaboration and increasing applications to the club by 45%.