

Meet Tilavat

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EDUCATION

Pandit Deendayal Energy University - PDEU (Formerly PDPU) <i>Bachelor of Technology in Computer Engineering (CGPA 8.92)</i>	Gandhinagar, Gujarat, IN 2021 – 2024
Marwadi University <i>Diploma in Computer Engineering (CGPA 9.00)</i>	Rajkot, Gujarat, IN 2018 – 2021

EXPERIENCE

Web Development Trainee <i>Yellow Apple Solutions</i> - Converted UI mockups into responsive HTML, CSS, and JavaScript pages. - Refined spacing, interaction states, and feedback-driven interface changes. - Fixed layout and interaction regressions before handoff.	May – July 2023 Surat, Gujarat, IN
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TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, Java, PHP, C/C++, HTML/CSS
Frameworks: Django REST Framework, Next.js, React, Node.js, Laravel, Angular
Backend & Data: PostgreSQL/PostGIS, REST APIs, Celery, Redis
DevOps & Cloud: Google Cloud, Cloud SQL, GCS, Docker, Jenkins, Nginx, Linux, AWS
Developer Tools: Git, GitHub, VS Code, JetBrains IDE(s)
Other: Custom PC building, hardware troubleshooting

PROJECTS

Vriksha Ganana / Tree Census Platform <i>Kotlin, Jetpack Compose, Django REST, PostGIS, Next.js, GCP</i> - Built an end-to-end municipal tree-census platform for SNMC across an Android field app, Django/PostGIS APIs, and a Next.js operations dashboard. - Implemented map-based field workflows, photo evidence, offline sync, Google Sign-In/JWT auth, and supervisor review flows. - Operated the live SNMC production deployment on GCP with Compute Engine, Cloud SQL/PostgreSQL 18 + PostGIS, GCS photo storage, Nginx, Redis/Celery, and uptime checks.
MeetTilavat.com <i>Next.js, Supabase, Docker, Jenkins, AWS EC2, Cloudflare</i> - Split a read-only public site and private admin/editor app backed by Supabase Postgres + Storage. - Containerized Docker builds and deployed to AWS EC2 with Docker Compose. - Built Jenkins CI/CD to push Docker Hub images and deploy updates over SSH; served via Cloudflare Tunnel/TLS.
Personal Blog <i>HTML, CSS, PHP, SQL, JavaScript, AWS</i> PHP/MySQL blog with admin publishing, CKEditor formatting, local image uploads, and AWS hosting.
Image Caption Generator <i>LSTM, CNN, Python, Streamlit, AWS/Azure</i> - Used the Flickr8k dataset for training an image captioning model. - Used ResNet50 as a feature extractor and LSTM for sequence generation. - Deployed the trained model with a Streamlit front-end on AWS and experimented with Azure deployments.
Diabetic Retinopathy Classification <i>CNN, Ensemble</i> - Learned preprocessing techniques such as CLAHE, histogram equalisation, and autocropping. - Experimented with vessel segmentation, watershed, U-Net, and attention modules. - Trained an ensemble model using ResNet, VGGNet, Inception, and Xception to classify fundus images into DR levels.