

Rajesh Pandey

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SKILLS

Languages: C/C++, Python, JavaScript, TypeScript, SQL

Technologies & Tools: AI, ML, Node, Express, Django, Docker, ReactJS, Nextjs, React Native, Sadhcn, Gsap, Locomotive

WORK EXPERIENCE

YouthIt, Itahari

May 2025 - Present

Software Engineer

- Designed and developed a scalable SaaS product from scratch, incorporating multi-tenant architecture, authentication, and role-based access control.
- Implemented key features including RESTful APIs, payment integration, and automated deployment pipelines, ensuring smooth CI/CD processes.
- Built responsive and dynamic front-end interfaces using React.js (MERN stack) with optimized state management for enhanced user experience.
- Developed backend services with Node.js/Express and MongoDB, ensuring high performance, security, and scalability.
- Gained hands-on experience in Django and Django REST Framework (DRF) to create secure and efficient API endpoints.
- Worked with Docker for containerization and orchestration, enabling smooth scaling and deployment.
- MERN Stack, Django, DRF, Docker, Git, REST API, CI/CD, MongoDB, PostgreSQL

YouthIt, Itahari

May 2025 - Present

AI/ML Instructor

- Instructed students in foundational Python programming for AI/ML, covering data types, control structures, functions, and libraries essential for data science.
- Taught data analysis and preprocessing techniques using Pandas, NumPy, Seaborn, and Matplotlib, including handling missing values, feature engineering, and addressing class imbalance.
- Guided students in applying scikit-learn for building, evaluating, and optimizing ML models.
- Delivered practical projects, such as predicting rock vs. mine classification using Logistic Regression.
- Introduced core AI/ML concepts including supervised, unsupervised, and reinforcement learning, as well as basics of artificial neural networks (ANNs).
- Currently teaching supervised learning algorithms starting from Linear Regression, classification techniques, decision trees, and ensemble methods.
- Python, Pandas, NumPy, Seaborn, Matplotlib, scikit-learn, Logistic Regression, Linear Regression, Decision Trees, ANN, Supervised/Unsupervised Learning, Reinforcement Learning

EDUCATION

TU,IOE,PURWANCHAL CAMPUS,DHARAN

May 2022 - May 2026

B.E. in Computer Engineering

CGPA: 2.8/4

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Microprocessor, Embedded System

PROJECT WORK

- **Korean Language Exam Management SaaS Platform (2025)** Live Demo
 - Served as Frontend Developer for a scalable, multi-tenant SaaS exam management system tailored for Korean language consultancies and educational institutions.
 - Implemented secure, real-time exam sessions with unique access codes, role-based access control (RBAC), live proctoring, and detailed analytics dashboards.
 - Developed responsive UI for Super Admin, Organization Admin, and Student portals, ensuring optimized workflows for exam creation, monitoring, PDF material access, and performance tracking.
 - **Technologies:** React, Context API, Redux Toolkit, Django-Tenant, RBAC, Real-time Data Sync, Secure PDF Handling
- **TrendMorph AI – AI-Powered Trend-Based Content Generator (2025)** Live Demo
 - Worked as Full Stack Developer, building a platform that generates viral content ideas based on user-selected niches by scraping trending topics and automating content creation.
 - Integrated BLIP model (Hugging Face) to convert images into captions, generate trending hashtags, create thumbnails, and produce advertising scripts.
 - Built Django-based web scraping services, Flask ML API for caption generation, and Node.js-based OAuth user authentication; implemented a modern React UI with shadcn components.
 - **Technologies:** React, shadcn/UI, Django, Flask, Node.js, OAuth, Hugging Face BLIP, Web Scraping, AI-based Content Generation
- **Voice AI Content Generator(2025)** Live Demo
 - Developed a voice-enabled AI platform capable of generating spoken scripts from prompts using LLM models for enhanced marketing and content automation.
 - Integrated with TrendMorph AI to handle script-to-audio generation for advertisements, social media campaigns, and business promotions.
 - **Technologies:** React, LLM API Integration, Speech Synthesis, Node.js

AWARDS AND CERTIFICATES

- **Mentor at YouthIt:** Helping students and working professionals to get better at problem solving, coding and system design