

Ritesh Pandey

Bengaluru – Karnataka, India

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Education

Bachelor of Technology (CSE) Vellore Institute of Technology VELLORE, TAMIL NADU 9.98 CGPA	2022
12TH CBSE Ramanujan Group of Educational Institutions PRAYAGRAJ, UP 93.40 AGGREGATE	2018
10TH CBSE Ramanujan Group of Educational Institutions PRAYAGRAJ, UP 92.20 AGGREGATE	2016

Work Experience

Software Development Engineer – JP Morgan & Chase, India

October 2023 – Present

Onsite - Bengaluru, Karnataka

- Contributed** to the development of a key module in (ERP) suite, implementing user-friendly & responsive interfaces using Angular & Spring Boot, improving module usability **by 20% (reducing user navigation time from 5 min to 4 min per task)**
- Enhanced** the performance of a reporting module by optimizing database queries in PostgreSQL and introducing asynchronous processing, reducing report generation time **by 35% (from 15 minutes to 9.75 minutes)**.

Software Development Engineer – Barclays, India

June 2022 – September 2023

Onsite - Bengaluru, Karnataka

- Engineered** client-side tools to optimize search engine rankings, boosting client **website visibility by 40%**, and enhanced applications using Spring Framework to improve system performance **by 30% (Server ping from 300ms to 140ms)**.
- Orchestrated** the integration of advanced analytics into existing systems, enabling data-driven decision-making and increasing operational efficiency **by 35% (reducing processing time from Avg. of 6 hours to 3.9 hours per task)**.

R&D Intern – Vellore Institute Of Technology, Tamil Nadu, India

July 2021 – May 2022

Onsite - Bhubaneshwar, Odisha

- Researched and designed** a machine learning-based facial recognition module, deploying it in commercial security systems, improving identification accuracy **by 80% (Average 10 failed cases per 100)**.
- Created** agricultural land monitoring solutions, integrating ML models with groundwater and weather data, boosting predictive accuracy for crop health and yield **by 60%. (improving crop yield predictions from 12 to 19 quintals per acre)**.

Projects

Project Title: CloudNest – Ultimate Storage Platform

[GitHub Link](#)

- Championed the development of a sophisticated storage drive framework with 30% increase in the average upload time of files.
- Technology Stack: Next.js 15, TypeScript, Tailwind CSS, Shadow UI, Chart.js

Project Title: PodVerse – AI-Powered Podcasting Solutions

[GitHub Link](#)

- Designed a unique SaaS app utilizing AI with voice to text functionality with over 300 sample of AI-generated images & voiceovers.
- Technology Stack: Next.js, TypeScript, React, Shadow CN, Tailwind CSS, Zod.

Project Title: VirtuFit – AI-Driven 3D Clothing Visualizer

[GitHub Link](#)

- Architected an interactive site with 3D visualizations and increased average visit time by over 2 min than the previous benchmarks.
- Technology Stack: React, React Three Fiber, Tailwind CSS, Framer Motion, DALL-E AI, Three.js, JavaScript, Node.js

Project Title: EmoPulse 1.0 – IoT & ML-Powered Emotion Analyzer

[GitHub Link](#)

- Prepared a hybrid of 2 machine learning algorithms (CNN & VGG 16) integrated with facial recognition for precise emotion analysis.
- Technology Stack: Python, OpenCV, TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, Flask and three ML Models

Project Title: EcoForecast 2.0 – Interactive Climate Change Predictor

[GitHub Link](#)

- Engineered an intelligent Prediction system which aims to serve more than 10000+ users for an early warning mechanism
- Technology Stack: Python, Machine Learning (Scikit-Learn, TensorFlow), Pandas, NumPy, AWS, Flask, PostgreSQL

Technical Skills

- Technical Skills:** DSA, Computer Networks, Operating Systems, Distributed Systems, DBMS, SDLC, OOP, System Design
- Programming Languages:** Java, Python, JavaScript, TypeScript, SQL, HTML/CSS
- Frameworks:** Spring Boot, Next.js, React, Express.js, Node.js
- Developer Tools:** VS Code, Eclipse, AWS Cloud Services, J2EE, Postman, Git, Jenkins, JUnit, Selenium, Pytest & Docker
- Technologies:** AI/ML, RESTful APIs, PostgreSQL, Kubernetes, OpenCV, Microservices Architecture, Cloud Computing
- Certifications & Training:** AWS Cloud Practitioner (AWS), Python Certification (Udemy), SDLC Certification (Coursera)

Achievements/Leadership Roles

- Achieved:** Hackathon Winner (InnovateX 2023, CodeFest 2024), Codeforces - Expert (Rating 2100-2199), CodeChef - 5-Star Rating
- Lead:** Team Lead – VIT Career Cell (VCC), Community Lead – GDG VIT Chapter, Coordinator – VIT Sports Society