

Pranav Dalvi

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Education

Pune Institute of Computer Technology, Pune, MH
B.E. in Information Technology

Jul 2021 – Jun 2025
GPA: 9.16/10

Skills

Languages & Frameworks Python, Java, C/C++, JavaScript, Node.js, TensorFlow, PyTorch
Cloud Platforms: AWS, Microsoft Azure, Google Cloud Platform (GCP)
DevOps & Tools: Docker, Kubernetes, Jenkins, Git, CI/CD, IntelliJ, VS Code, JIRA, Postman
Databases: MySQL, MongoDB, SQLite

Professional Experience

RWTH International Academy Office
Research Intern

Aug 2025 – Present
Pune, MH

- Applied MD–FEM simulations to study mechanical, thermal, and structural behavior of nanocomposites at the nanoscale.
- Evaluated stress response, heat transfer, and interfacial effects to understand and optimize material performance.

FinIQ

UI/UX Intern

Jan 2025 – Feb 2025
Pune, MH

- Built a responsive product catalog using React.js, ensuring smooth performance and seamless usability across mobile and desktop devices.
- Improved mobile user retention by 25% through optimized UI/UX design and efficient component-based architecture.

Career Spectrum

Data Science Intern

Aug 2023 – Feb 2024
Mumbai, MH

- Designed and trained a multi-layer perceptron (MLP) combined with customized NLP preprocessing and feature extraction pipelines for personality inference.
- Achieved a 30% improvement in classification accuracy through optimized model architecture and refined linguistic features.

Academic Projects

NexTalk 🔗

Jun 2024 – Jul 2024

- Designed a real-time communication platform supporting over 100 concurrent users via Socket.io and React.
- Implemented secure JWT-based authentication and persistent message handling with MongoDB.
- Accelerated query performance by 40% using advanced filtering, server-side pagination, and lexical search enhancement.Reduced load latency by 30% through dynamic client-side rendering on Vercel.

Workly 🔗

Jan 2024 – Apr 2024

- Built a scalable job portal ecosystem enabling structured listing, smart discovery, and application workflows using the MERN stack.
- Enforced hierarchical permissions through JWT-driven access control for admins, recruiters, and applicants.
- Accelerated query performance by 40% using advanced filtering, server-side pagination, and lexical search enhancement.

Clinix 🔗

Jul 2023 – Oct 2023

- Launched a digital appointment platform with real-time scheduling, supporting seamless booking, rescheduling, and cancellations.
- Enforced strict privacy protocols through JWT authentication and role-specific access policies.
- Crafted an intuitive UI powered by calendar-driven interfaces, increasing user engagement metrics by 40%.

Publications

- Pranav K. Dalvi, Kirti Y. Digholkar, *RLHF: Reinforcement Learning using Human Feedback for Optimization of Chat-GPT*, *Grenze International Journal of Engineering and Technology*, Vol. 10, No. 2, 2024, 3362-3370.

Leadership

- **PICT CSI Student Branch:** Led the redesign of the PICT CSI Student Branch website as Web Development Head using React.js, boosting performance by 40% and enhancing user experience.