# Gouresh Vernekar

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## Profile

I am a final-year Bachelor of Technology student in Computer Science (Software Engineering) at Ajeenkya DY Patil University, Pune, with a strong passion for learning, innovation, and problem-solving. I thrive on exploring new technologies and applying smart, efficient solutions to optimize workflows, reduce effort, and enhance productivity. I am eager to contribute my skills in software development, algorithm optimization, and process automation to dynamic and challenging projects that drive meaningful impact.

## Education

- **AJEENKYA DY PATIL UNIVERSITY** — ***PUNE, INDIA***
  *Bachelor of Technology in Computer Science (Software Engineering)* — *Aug 2022 – May 2026*
- **INTI INTERNATIONAL UNIVERSITY** — ***KUALA LUMPUR, MALAYSIA***
  *Bachelor of Computer Science (Hons)* — *Jan 2025 – May 2025*
- **GOVINDRAM SEKSARIA SCIENCE COLLEGE** — ***BELGAUM, INDIA***
  *Pre-University (PUC)* — *June 2020 – May 2022*

## Experience

- **SOFTWARE DEVELOPER INTERN** — ***AUG 2025 – PRESENT***
  Funnkar Design House — *Pune, India*

– Developed and maintained software applications using Python and Java, focusing on clean architecture, modular design, and performance.
– Implemented core application logic, data processing workflows, and feature enhancements based on functional requirements.
– Debugged, tested, and optimized code to improve reliability and maintainability.
– Collaborated with team members to design and deliver scalable software solutions.

- **FREELANCE SOFTWARE DEVELOPER** — ***MAR 2024 – APR 2025***
  Independent Projects — *Pune, India*

– Developed and delivered software and web-based solutions for clients, focusing on functionality and usability.
– Implemented UI/UX workflows, basic video edits, and digital assets to support client requirements.
– Collaborated directly with clients to gather requirements and iterate on feedback.

## Technical Skills

- **Programming Languages**:
  Python (NumPy, Pandas, Matplotlib, SciPy), Java (OOP, JDBC, Swing), C/C++, HTML, CSS, JavaScript, Kotlin (Android), XML.
- **Software & Web Development**:
  Android Studio, Jetpack Compose, Firebase, Git/GitHub, Node.js, Web Hosting, CSV/Excel Data Handling.
- **Data Structures & Algorithms (DSA)**:
  Linked Lists, Trees, Graphs, Dynamic Programming, Sorting/Searching Algorithms, Time Complexity Analysis.
- **UI/UX Design & Graphics Tools**:
  Figma, Adobe Photoshop, Illustrator, Canva — Prototyping, Wireframing, Interface Design, Branding.
- **Data Analysis & Visualization**:
  Python (Pandas, Matplotlib, Seaborn), MATLAB, Excel, Regression Modeling, Clustering, ROC, AIC/BIC, Cross-Validation.

## Projects

- **University Knowledge Cloud Platform (CoVault):** CoVault is a cloud-native, multi-tenant academic knowledge platform that functions as a social network for universities, enabling students and faculty to create, share, curate, and discover course-scoped educational resources and discussions with role-based governance, persistent institutional memory, and advanced search across semesters.
- **Delivered production UI/UX and a mobile receipt printer app for GBC Canteen (UK)**, integrating POS workflows and thermal printer automation for real-world daily operations.
- **Built a dyslexia-optimized text reader** implementing evidence-based typography (increased letter spacing, larger fonts, simplified layouts) with automatic text reformatting, OCR support for scanned PDFs, and optional offline read-aloud features.
- **Designed an assistive software system that integrates with any camera to aid visually impaired users** by audibly describing objects in front of them and estimating their distance, delivered through earphones.
- **Developed a voice-assisted Robotic Process Automation (RPA)** tool enabling individuals with special needs to operate their laptops entirely through voice commands, enhancing accessibility and ease of use.
- **Developed a machine learning model for breast cancer detection**, capable of classifying cases into categories including normal, benign, and malignant.