Prathmesh Sonawane

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Education

Vishwakarma Institute of Technology, Pune   **Aug 2022 – May 2026**
Bachelor of Technology in Information Technology   *CGPA: **7.9**/10.0*

Experience

Software Engineer Intern | *Canspirit AI*   Sept 2024 – Apr 2025

- **Spearheaded** development of **5 AI applications** that served **500+ daily users**, and **accelerated** processing time by **60 percent**.
- **Engineered ETL pipelines** that processed **10GB+ daily data** and **CI/CD workflows** across **15+ microservices**, and **improved** deployment frequency by **40 percent**.

Technical Skills

Languages: **Python, C, JavaScript, SQL, R, Solidity, HTML5, CSS**.
Frameworks: **React.js, Flask, Django, FastAPI, Next.js**.
Databases: **DynamoDB, MongoDB, SQLite, MySQL, PostgreSQL**.
Cloud: **Google Cloud Platform, AWS (S3, DynamoDB)**.
Tools: **Docker, Kubernetes, Git, Tableau, Linux, Selenium, OpenCV, YOLOv5**.
Specializations: **Machine Learning, AI, Blockchain, Computer Vision, DevOps**.

Projects

DocManager [Link]
Flask, AWS S3, DynamoDB, Solidity, AES   May 2025

- **Architected** a cloud-based system that handled **100+ concurrent users** with **AES encryption** and **blockchain verification**, and achieved **99.9 percent security compliance**.
- **Integrated** Aho-Corasick and Bloom Filter algorithms, delivered **sub-200ms responses**, and **optimized** search time by **70 percent** across **100+ documents**.
- **Established** Merkle Root verification processing with **100 percent traceability**.

Safe Assessment Chain [Link]
Blockchain, Computer Vision, Ethereum, Solidity   Nov 2024

- **Launched** a secure examination platform that was **awarded best project among 100 submissions**, and **prevented 95 percent** of academic malpractices.
- **Developed** 8 smart contracts that automated **200+ concurrent examinations**, and **enhanced** scalability by **300 percent** with provisional patent filed.

Vahanparikshak [Link]
Machine Learning, MongoDB, Firebase, Python   Nov 2023

- **Deployed** an AI-powered system with **Smart City Pune** and **RTO Pune** that processed **200+ daily trial verifications**.
- **Executed** ML models that achieved **98.5 percent accuracy**, and **streamlined** verification time by **75 percent**, and ranked **top 5** at **SIH 2.0** among **500+ teams**.

Awards and Achievements

- **Secured third place** in **CTF Hackathon 2025** (**100+ teams**).
- **Grand Finalist** in **PICT TechFista 2024** (**150+ teams**).
- **Ranked top 5** in **Smart India Hackathon 2.0**.
- **Ranked top 10** in **National Techathon 2024**.
- **Finalist** in **Innerve Hackathon 2024**.

Research and Publications

- **Authored** "Expressive Canvas: Emotion Detection in Interactive Art" in **Springer Nature LNNS Series** [Link].
- **Featured** "WaveFilter: Marine Microplastic Monitoring" (**79.8 percent precision**) in **IEEE InCACCT-2025** [Link].
- **Presented** "Real-Time License Verification via Face Recognition" in **IEEE Xplore** [Link].
- **Contributed** "Air Quality Prediction Model" (**99 percent accuracy**) to **IEEE Preprints** [Link].