Sarwesh Khairnar

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Education

- **Vishwakarma Institute of Technology** — Pune, India
  Bachelor of Technology - Computer Science, Major in AI & DS; GPA: 9.14 — *Dec 2021 - May 2024*

  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

- **K. K. Wagh Polytechnic** — Nashik, India
  Polytechnic Diploma - Computer Technology; Percentage: 95.37% — *June 2018 - Aug 2021*

  Courses: *Data Structures, Software Development, Mobile Development, Database Management, Computer Networks.*

Skills Summary

- **Languages:** JAVA, Python, SQL
- **Frameworks:** Flask, Spring Boot, Android SDK, React JS, Unittest, Pytest, Scikit-learn
- **Tools:** Kubernetes, Docker, GIT, MySQL, SQLite, Firebase, VS Code, IntelliJ,Android Studio, Google Maps SDK
- **Soft Skills:** Innovative Thinking, Communication, Collaboration, Leadership, Learning Agility, Public Speaking

Experience

- **JPMorgan Chase & Co.** — Mumbai, IN
  Software Development Engineer (Full-time) — *July 2024 - Present*
  - Contributed to a Foreign Exchange settlement engine processing 700K+ trades/day.
  - Developed and delivered multiple features end-to-end; resolved 50+ production issues in under a year.
  - Collaborated with cross-functional teams to optimize system performance and reliability.
- **JPMorgan Chase & Co.** — Mumbai, IN
  Software Engineer Intern — *Jan 2024 - June 2024*
  - Engineered a database tool to decompress large data blobs, reducing storage requirements and optimizing cost to company.
  - Built a utility to visualize settlement life-cycle, improving team understanding of settlement status and history.

Projects

- **DISHA: Facility Locator for Disabled (Android - Java, Python, Firebase, Maps):**
  - Designed and implemented a mobile app providing disabled-friendly facility information, benefiting over 20M+ users in India..
  - Led the team to win first place in Smart India Hackathon'22, outperforming 58+ teams.
- **eTaka: Measure Soil Fertility by Location (Python, Flask, Android - Java, Machine Learning):**
  - Guided a team in building a system that accurately predicts soil nutrients, fertility, and provides crop recommendations based on soil images and location data.
  - Achieved an accuracy rate of 97.5% for nutrient prediction and 96.5% for crop recommendations, with the potential to benefit a significant portion of India's agricultural community.
- **Phish-Shield: A Cyber-Security Solution (Python, Web Scraping, Flask, Machine Learning):**
  - Phish-Shield is a mobile and web solution which blocked 95% of simulated phishing attempts during internal testing, protecting users from fraudulent websites.
  - Achieved 87% accuracy with model. Also, created a mozilla extension and deployed it to AMO(Addons Mozilla).

Honors and Awards

- Won the prestigious **Unesco India-Africa Hackathon**, representing India among participants from 22 countries.
- Awarded Gold Medal by the **Vice President and Education Minister of India** for international hackathon victory.
- Led team to victory in the **Smart India Hackathon**, selected from 100+ submissions and 50+ national finalists.
- Named **Best Outgoing Student** in AI & DS among 200+ peers for academic and leadership excellence.
- Published **3 research papers** in Scopus journals; received **2 copyrights** for project innovations.
- Selected for **J.P. Morgan's Code for Good** from a national pool of applicants across Indian colleges.
- Runner-up at "Pitch-Ally" and National Conference on Emerging Trends, among 600+ participants.
- Selected for **J.P. Morgan's Force for Good program** from top talent across the Mumbai Tech Center

Publications

- Vayadande, K. and Khairnar, S. "Heart Disease Prediction using Machine Learning and Deep Learning Algorithms," 2022 International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES), Greater Noida, India, 2022, pp. 393-401, doi: 10.1109/CISES54857.2022.9844406.
- Vayadande, K. and Khairnar, S. "Disha: A Facility Locator for the Disabled Humans." Techno-Societal 2022 - 4th International Conference on Advanced Technologies for Societal Applications - Volume 1(In press), 2545.