BINDU MADHAVI V

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EXPERIENCE

Cognizant Technology Solutions ↗   **May 2025-Present**
Programmer Analyst Trainee   *Bengaluru, Karnataka*

- Designed a full-stack **Smart Health Analytics System** using Python and MySQL to enhance healthcare data management and deliver actionable insights for doctors and administrators.
- Used Cloud Run to deploy a **stateless NodeJS API** that returns a list of tasks in JSON format.
- Additionally engaged in concepts like Data warehousing, ETL, and Hadoop ecosystem.

UptoSkills ↗   **Oct 2024-Jan 2025**
MERN Stack Intern   *Remote*

- Built **Mentor-Mentee dashboard**, a software used to connect students with mentors across the nation.
- Enhanced backend functionality by designing and optimizing API endpoints, leading to a 30% improvement in error detection.
- Collaborated across teams to deliver high-performing and scalable features, enhancing the user experience.

PROJECTS

SyncSketch: A Real-time collaborative drawing app ↗ | ReactJS,NodeJS,WebSockets   **Aug 2024**

- This app allows the host to draw on a shared canvas and instantaneously see updates across other users.
- Includes a basic set of drawing tools, options like undo, redo, clear canvas and the host can download the drawings created.
- Includes room-chat integration.

PCOS Detection ↗ | Machine Learning   **Feb 2024**

- Decision tree with criterion Gini index outperformed with 88.07% accuracy among single classifiers while Gradient Boost stood out with an accuracy of 91.74% among bagging and boosting algorithms.
- The Ensemble classifier ensemble model involving bagging, boosting and single classifiers brought 95.41% accuracy.
- Results were interpreted using Explainable AI such as LIME and SHAP.

COURSEWORK

- MongoDB - The Complete Developer's Guide 2024
- Engineer Learning path - Postman
- The Complete 2024 Web Development Bootcamp - Udemy

TECHNICAL SKILLS

Languages: C++, Python, Javascript, SQL, HTML/CSS
Technologies/Frameworks: Git/Github, MongoDB, Postgres, MySQL, EJS, Jquery, Express, NodeJS, ReactJS, Rest APIs, Bootstrap, Scikit-learn
Developer Tools: VS Code, Postman

EDUCATION

Global Academy of Technology   **Dec 2021 – July 2025**
*B.E - Computer Science and Engineering - **CGPA - 9.61***   *Bengaluru, Karnataka*

PUBLICATIONS

A. G, **B. M. V**, M. Murthy and N. Guruprasad, **Federated Learning for Cybersecurity: A Promising Frontier** 2024 International Conference on IoT, Communication and Automation Technology (ICICAT), Gorakhpur, India, 2024, pp. 27-30, doi: 10.1109/ICICAT62666.2024.10923300.

B. M. V, A. Firdouse and A. Kodipalli, **Detection of PCOS Leveraging Machine Learning and Interpretation Using Explainable AI** 2024 First International Conference for Women in Computing (InCoWoCo), Pune, India, 2024, pp. 1-6, doi: 10.1109/InCoWoCo64194.2024.10863596.