

HEMAVATHI K

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☎ 8892882627 | 📍 Bangalore | 📄 Portfolio

PROFILE SUMMARY

MCA graduate student passionate about creating scalable solutions in Software Development Engineering (SDE), Artificial Intelligence (AI), and Machine Learning (ML). Focused on solving real-world challenges with programming and technology skills.

TECHNICAL SKILLS

Programming Languages: C, C++, Python, ML, JAVA, PHP

Core Computer Science: Operating System, DBMS, Data Structures, Algorithms

Frameworks: TensorFlow, OpenCV, YOLOv8, Django

Data Science: Exploratory Data Preprocessing, Statistical Analysis, Data visualization

Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn

Database: SQL(PostgreSQL, MYSQL workbench, Sqlite3), NoSQL (MongoDB), XAMP Server

IDEs Tools : Git, REST APIs, VS Code, PyCharm, Power BI, Canva, Excel, Google collab

PROJECTS

Thyroid Disease Prediction check, Jul 2024 – Oct 2024

Developed a user-friendly website for predicting thyroid diseases with 98.7% accuracy using the XGBOOST algorithm, integrated appointment booking and tracking features, utilizing ML, Python, Django, SQLite3, HTML, and CSS.

Tracking System for Autism Spectrum Disorder (ASD) Analysis

Designed a real-time person detection and tracking system for Autism Spectrum Disorder (ASD) analysis with 92.5% accuracy, leveraging PyTorch, YOLOv8, SORT, OpenCV, and NumPy to improve workplace safety and video analytics responsiveness. [LINK](#)

Cultivate-Hub, Jan 2024 – Apr 2024

Developed a scalable web application for an agriculture loan transaction system, enabling seamless user interactions and administrative management, utilizing PHP, HTML5, CSS3, JavaScript, and XAMP Server. [LINK](#)

Job - Portal website, May 2022 – Aug 2022

Created a job portal web application for users to apply for jobs across various locations and track applications, with admin functionality for user management [LINK](#)

INTERNSHIP

Data Science, XCEL Crop, Bangalore | Aug 2024 – Oct 2024

Conducted thorough functional testing leading up to successful deployment phase. Ensured smooth transitions between development environments while maintaining rigorous quality assurance standards throughout the process.

EDUCATION

MCA, Community Institute of Management Studies, Bangalore

CGPA 9 2022 – 2024

BCA, Govt Science College, Bangalore

CGPA 8.4 2019 – 2022

PUC and SSLC, Vivekananda PU

College, Govt Police Colony

Achieved 68% 2017 – 2019

SOFT SKILLS

Problem-solving | Testing and Debugging | Leadership | Time Management | Collaboration | Team management | Communications | adaptability | Critical Thinking

CERTIFICATES

Hardware Technology-Python | AI

NPTEL - OS | Jul 23 - Oct 23

NASSCOM - AWS Cloud Partitioner

PARTICIPATION

Paper presentation conference cell on Aug 2024 of IQAC and research development

Paper presentation conference SAMVIT International Conference of Emerging Trends in Science and Technology Sep 2024.

ACHIEVEMENTS

Best Paper Presentation

“Thyroid disease classification using Supervised Machine learning Algorithms”

Aug 2024 International Conference organized by IQAC and Research & Development

LANGUAGES

English	● ● ● ● ●
Kannada	● ● ● ● ●
Tamil	● ● ● ● ●