Ashvija V M

AI and Software Engineering Enthusiast

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Profile

Enthusiastic AI and Software Engineering professional with practical experience in building and refining machine learning models. Adept at data analysis, algorithm design, and deploying intelligent solutions to real-world challenges. Strong foundation in artificial intelligence, data science, and end-to-end software development, with a passion for continuous learning and innovation

Areas of Expertise

Artificial Intelligence, Machine Learning, Deep Learning, Data Analysis, Data Visualization, Python, Power BI, SQL, C, HTML, CSS

Projects

QR Code-Based Smart Office Seat Allocation System , *(Peoject link)*   **Karnataka, India** *02/2025 - 02/2025*

- Designed a QR-based system for real-time seat booking and occupancy tracking.
- Tech stack: HTML, CSS, JavaScript, React.js, Python(Flask), PostgreSQL, WebSockets, qrcode library.
- Reduced operational costs and improved office space usage.

AI-Powered Online Exam Proctoring System, *(Project link)*   **Karnataka, India** *03/2025 - 03/2025*

- Created AI-driven monitoring to detect cheating behaviors in real-time.
- Tools: Python, OpenCV, TensorFlow, Keras, Flask, JavaScript.
- mproved online exam security and integrity.

Knee Osteoarthritis Detection Using ML Algorithm, *(Project link)*   *03/2025 - 03/2025*

- Developed a machine learning model to detect Knee Osteoarthritis using the X - Ray images of knee that are classified using a measure Kellgren-Lawrence (KL) grading scale into 5 stages.
- Random Forest Classifier algorithm is used for the Multiclass classification.
- Tools: Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn.increase quarterly sales by 15
- Achieved 92% accuracy with Random Forest Classifier algorithm

Key Achievements

Hack-A-League 3.0 *(Global Academy Of Technology)*   **Karnataka, India** *01/2025 - 02/2025*

- Hackathon Participant — Team: AI Alchemists
- Built a QR Code-Based Smart Office Seat Allocation System to streamline office space management through real-time seat booking, occupancy tracking, and resource optimization.

The Great Bengaluru Hackathon *(Bengaluru)*   **Bengaluru, India** *15/03/2025 - 16/03/2025*

- Hackathon Participant — Team: Debug Dynasty
- Selected among the top 150 teams from over 4,200+ registrations and 1,200+ idea submissions.

- Developed an AI-powered Online Exam Proctoring System to detect cheating behaviors and enhance exam integrity using machine learning and real-time monitoring techniques.

Online Courses & Certifications

- Introduction to Natural Language Processing (Jan. 2025) - Infosyspringboard

- Introduction to Deep Learning (Jan. 2025) - Infosyspringboard

- Introduction to Arti cial Intelligence(Jan. 2025) - Infosyspringboard

- Software Engineering and Agile software development(Aug. 2024) - Infosyspringboard

Education

B.E.Computer Science (AI & ML) *JSSATE-B*   **JSSATE, Bengaluru, Karnataka** *2022-2026*
Artificial Intelligence, Machine Learning, Data Analysis, Database Management Systems, Data Structures, Analysis and Design of Algorithms, Programming Languages (Python, C, Java)

Skills

- **Programming Languages:** C, Python, Java

- **Tools/Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, OpenCV

- **Platforms:** Jupyter Notebook, Google Colab, MySQL, GitHub, VS Code

- **ML Techniques:** Decision Tree, Random Forest, Logistic Regression

- **Data Visualization:** Power BI, Excel, Pandas

- **Soft Skills:** Teamwork, Communication, Leadership, Problem Solving, Planning, Presentation

Extracurricular Activities

National Entrepreneurship Challenge (NEC) *(E-Cell IIT Bombay)*   **Mumbai, Maharashtra** *08/2024 - 12/2024*

- Objective: Gaining hands-on experience in entrepreneurship by developing and pitching innovative business ideas

- Outcome: Organized Aadi Antha Prerna, a startup pitch competition, and enhanced entrepreneurial and leadership skills.

Pragati: The Path to Future *(Infosys Springboard)*   **Bengaluru, India** *07/2024 - 12/2024*

- Objective: Engaging in a 12-week career development program focused on digital skills and career readiness.

- Outcome: Gained critical thinking, analytical abilities, and professional mentorship through online and offline sessions.

SAMSUNG Innovation Campus – Hackathon Mentor *(Hackathon)*   **Bengaluru, India** *06/2024*

- Volunteered as a mentor at the SAMSUNG Innovation Campus Hackathon, supporting teams in project development and technical problem-solving.

- Strengthened leadership, communication, and mentorship skills while promoting innovation and collaboration.

Languages

- **Kannada** [Native]
- **English** [Fluent]

- **Hindi** [Basic]-Learning