

MANASA H K

B.Tech 2nd Year Student, Computer Science and Engineering

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PROFESSIONAL SUMMARY

Third-year B.Tech (CSE) student at RV University specialising in Artificial Intelligence & Machine Learning with experience in full-stack development, cloud systems, and machine learning. Built and deployed web apps using Flask, SQLite3, and Render. Developed an autism detection ML model with 90% accuracy. Proficient in Python, Java, SQL, and Agile development. Actively seeking software development internships to apply and grow my technical skills.

EDUCATION

Bachelor of Technology (Hons.) in Computer Science and Engineering

[RV University](#)

📅 08/2023 - Present 📍 Bengaluru

GPA – 9.0 | Expected Graduation: 2027

CERTIFICATIONS

1. AWS Cloud Practitioner Essentials - Amazon Web Services (AWS)

Foundational certification in cloud computing concepts and AWS services, including EC2, S3, and IAM

2. Data Analytics and Visualization Job Simulation – Accenture (Forage)

Completed a virtual experience covering project understanding, data cleaning & modelling, data visualization & storytelling, and client presentation.

3. Big Data 101 – IBM SkillsBuild

Introductory certification covering fundamental big data concepts and tools, offered by IBM Developer Skills Network.

4. Git and GitHub for Beginners – IBM SkillsBuild

Foundational course in version control using Git and GitHub, covering core concepts like repositories, commits, branches, and collaboration.

5. Programming in Modern C++

Successfully completed an NPTEL-certified course on C++ programming. Covered topics like object-oriented design, pointers, and modern C++ features for efficient coding practices.

SKILLS

Languages: C, Java, Python

Web Technologies: HTML, CSS, Flask, React.js, JavaScript

Databases: SQLite3, MySQL, MongoDB

Tools & Platforms: Git, GitHub, Render, Figma, VS Code, Canva

Methodologies: Agile, Scrum

Concepts: Cloud, DBMS, Data Analysis, Big Data, DSA, OOP

CO-CURRICULAR ACTIVITIES

- Selected by Avanti Fellows to participate in the Infosys Foundation #IamFutureReady workshop (Feb 2025) in Hyderabad, joining 200 high-potential female students from across India. The program focused on key areas such as resilience, financial literacy, personal development, mental well-being, and women empowerment.
- Donated blood during a community health drive, helping provide care to up to 3 potential patients and demonstrating a strong commitment to civic responsibility and community well-being.
- Participated in 5+ national-level hackathons and algorithm challenges on Unstop.

EXPERIENCE

Cloud Computing & GenAI Intern

📅 06/2024 – 11/2024 | RV University, Bengaluru

- Concluded an 8-week internship focused on cloud computing (AWS) and generative AI applications.
- Created a University Management System to manage student data, courses, and administrative workflows with a cloud-based backend.
- Engaged in MOOC courses from Coursera (Generative AI) and MyGreatLearning (Web Development), and studied AWS Cloud Computing Fundamentals, gaining practical experience in full-stack web technologies and cloud infrastructure.

PROJECTS

ATM Interface

Team of 3 | Stack: Python, Flask, MySQL, Docker, Git, GitHub

- Enhanced a secure ATM simulation system enabling user authentication, PIN changes, withdrawals, and balance checks.
- Executed project development in 3 Agile sprints, using Scrum practices such as daily stand-ups, sprint reviews, and task tracking.
- Achieved a 92% success rate in simulated secure testing, validating system behavior under various edge-case transaction scenarios.

Cloud-based File Storage System

Team of 3 | Stack: Python, Flask, SQLite3, HTML/CSS, Bootstrap, Render

- Built a full-stack cloud storage application enabling secure file uploads and downloads for up to 100 users, using Flask and SQLite3.
- Deployed the application on Render, with weekly Git-based updates and version control to track incremental improvements.
- Architected the system for 50% scalability, outlining plans for integration with cloud storage services like Amazon S3 or Firebase.

Recipe Recommendation System

Team of 3 | Stack: MySQL, Python, Flask, HTML/CSS

- Recommends recipes based on user-selected ingredients using SQL JOIN and LIKE.
- Created a visually appealing and user-centric interface with Flask, optimizing key user pathways, this adjustment resulted in 20% increase in user retention rates over a three-month period.

Autism Detection Interface

Team of 3 | Stack: Python, Machine Learning, Pandas, Scikit-learn, Flask

- Evaluated four different machine learning models including Random Forest and Decision Tree on behavioral and demographic data from a Kaggle dataset.
- Trained and tested four ML models on a dataset of 804 samples; Random Forest achieved 90.2% accuracy.
- Applied preprocessing, categorical encoding, and feature selection to improve model performance.