

Sadhana Saravanan

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EDUCATION

University at Buffalo, The State University of New York Master of Science, <i>Computer Science & Engineering (AI/ML Track)</i> <ul style="list-style-type: none">Coursework: Algorithms, Data Visualisation, Machine Learning, Deep Learning	Buffalo, New York Aug 2024 - Dec 2025
M.S. Ramaiah University Of Applied Sciences Bachelor of Technology, <i>Computer Science & Engineering</i> <ul style="list-style-type: none">Coursework: Data Structures, Data Science, Database Management, Cloud Computing, Operating Systems.	Bangalore, India Aug 2018 - May 2022

TECHNICAL SKILLS

Programming: HTML, CSS, Javascript, Python, SQL, Java, C#, Typescript
Libraries: NumPy, Matplotlib, Pandas, Scikit-Learn, OpenCV, Seaborn, Tensorflow, Spark, Pytorch, Seaborn, Matplotlib
Frameworks: WebAPI FastAPI, Flask, React JS, Angular JS, Springboot, Bootstrap, ANT Design
Tools: Git, Github, VS Code, Azure Databricks, Jupyter Notebooks, Atom, Azure-Board, Jira, Postman, CI/CD, Tableau
Databases: MySQL, MongoDB, CosmosDB, Microsoft SQL Server, SQLite, PostgreSQL
Soft Skill: Problem-Solving, Analytical Skills, Communication, Teamwork, Critical Thinking, Adaptability

EXPERIENCE

Software Engineer <i>LTIMindtree Ltd</i> Python, Azure, Databricks, FastAPI <ul style="list-style-type: none">Engineered scalable backend services using Python and FastAPI, designing clean and well-documented REST APIs that served over 1K+ requests/day improved maintainability by 30% through adherence to clean code practices and modular architecture.Optimized data pipelines in Azure Databricks using PySpark, resulting in a 20% boost in data processing efficiency and enabling real-time analytics for better decision-making.Built an order management system for a food-based client using FastAPI and Azure SQL Database, automating order tracking and updates, reducing customer query resolution time by 30%.Participated in sprint demos, retrospectives, and daily stand-ups in Agile teams and assisted conducting peer reviews via (Azure Repo) GitHub pull requests.	Jul 2022 - Jul 2024 Bangalore, India
Software Engineer Intern <i>Mindtree Ltd</i> React.js, .NET Web API, SQL, Git <ul style="list-style-type: none">Developed an HR Leave Management System using React.js and .NET Web API, enabling employees to apply for and track leave requests, reducing manual approval processes by 40%.Reengineered and migrated analytics dashboard pipelines from Azure Databricks to Synapse Studio, enhancing processing speed by 30% and streamlining data processing workflows.Integrated efforts with team lead in an agile environment to manage version control Azure Repos(Git) workflows, resolving 10+ merge conflicts weekly and ensuring an error-free codebase for deployments.	Feb 2022 - May 2022 Bangalore, India

PROJECTS

Plant Disease Classification using Deep Learning <i>Python, PyTorch, ResNet-18</i> <ul style="list-style-type: none">Developed a plant disease classification model using ResNet-18 architecture in PyTorch, achieving 92% accuracy in identifying diseases from crop images.Applied advanced techniques like data augmentation, learning rate scheduling, and early stopping to improve model generalization and reduce overfitting.	Sep 2024 - Dec 2024
Recommendation System <i>Python, Streamlit, Requests, Pickle, SQLite</i> <ul style="list-style-type: none">Built a movie recommendation engine using pickled models and cosine similarity, increasing user engagement by 25% by providing personalized movie suggestions based on user preferences.Implemented a secure login system with password hashing via SQLite, ensuring user data security and enabling personalized recommendations.	Jan 2024 - Mar 2024
Innovation Course Portal <i>React, Node.js, Express, JavaScript, MongoDB</i> <ul style="list-style-type: none">Developed a web-based platform in 4 months for managing university courses using React, Node.js, and MongoDB, improving course accessibility for 200+ students.Designed an admin dashboard with role-based access controls and real-time data visualization, increasing administrative efficiency by 40%.	Jan 2022 - Apr 2022