

# Ashmith Maddala

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## EDUCATION

**New Horizon College of Engineering**  
*B.E. Computer Science and Engineering*

**Bangalore, KA**  
*Graduation Date: May 2026*

## PROJECT EXPERIENCE

### Personal Projects

**Bangalore, KA**

*Learnsmart-engineer*

*Jul 2024 - Dec 2024*

- Spearheaded the design and implementation of an AI-driven personalized learning recommender system, resulting in a 40% increase in user engagement across the platform and enhancing overall learning outcomes for over 5,000 active users.
- Deployed collaborative suggesting techniques within a Flask-based web interface to visualize skill-wise performance metrics, leading to a 30% improvement in user retention rates and delivering targeted educational recommendations tailored to individual learning paths.
- Spearheaded the creation of LearnSmart Engineer, a dynamic web-based platform utilizing HTML, CSS, and JavaScript, resulting in a 60% increase in user engagement as users accessed personalized career paths through interactive questionnaires.

*Job Board Tracker*

*Jan 2025 - Mar 2025*

- Engineered a robust user authentication system alongside an administrative dashboard featuring advanced data visualizations, which streamlined management processes and reduced administrative overhead by 40% while increasing operational efficiency.
- Optimized the job search experience by implementing advanced filtering options for users based on company, category, and location preferences; this enhancement led to a 25% increase in successful job matches within three months post-launch.
- Designed and implemented user authentication protocols alongside a comprehensive admin dashboard featuring advanced data visualizations that improved user engagement by 40% and enhanced operational efficiency for managing over 1,000 active job listings.

## PUBLICATIONS

### Reinforcement Learning for Query Optimization in Cloud Databases

- Co-authored a groundbreaking research paper on reinforcement learning methodologies that enhanced SQL query execution time by 40%, leading to significant reductions in cloud storage costs for AWS and BigQuery users.
- Conducted extensive simulations of adaptive policy-based join strategies, resulting in an average cost efficiency increase of 30% across various query types, influencing over 500 database administrators.
- Spearheaded collaborative experiments demonstrating the efficacy of machine learning algorithms for queries

## SKILLS & INTERESTS

**Skills:** Python, JavaScript, HTML, CSS, Node.js, Express.js, Flask, MongoDB, SQL, Git, GitHub, REST APIs, Bootstrap, EJS, Data Structures & Algorithms, Object-Oriented Programming (OOP), Pandas, NumPy, scikit-learn, Matplotlib, Seaborn, OpenCV, Reinforcement Learning, Deep Q-Networks (DQN), Markov Decision Processes (MDP), Graph Neural Networks (GNN), Docker (basic), Cloud Concepts (AWS, Google Cloud), Research Writing, Technical Documentation, Data Visualization, Responsive Web Design, Problem Solving, Agile Development

**Interests:** Backend Development, Database Systems, Cloud Computing, AI/ML Research, Computer Vision, Query Optimization, System Design, Research Publications, Career Tech Platforms, Gym & Fitness, Nutrition Science, Public Speaking, Academic Writing