Shubham Jain

+1 (551)-371-2984 | sjain71@stevens.edu | Linkedin

Education

Stevens Institute of Technology, Hoboken May 2026
Master of Science in Applied Artificial Intelligence ***GPA: 3.89***
Relevant Courses: Machine Learning,Deep Learning,Developing Business Application using GenAI,GPU and Multicore Programming

Jaypee Institute of Information Technology, Noida June 2019
B. Tech in Electronics and communication Engineering
Relevant Courses: Data Structures, Introduction to IOT, Algorithm and Artificial Intelligence and Quantum Mechanics

Technical Skills

ML Frameworks: PyTorch, TensorFlow, Keras, OpenCV
Data Science Tools: Numpy, Pandas, Matplotlib,Jupyter Notebook, Tableau, GitHub, JIRA
Programming Languages: Python, CUDA C, Java, Javascript , SQL, Java-Selenium, C, C Sharp, HTML
GenAI Technologies: LangChain, Crew AI, AutoGen 0.4, LangGraph, RAG
Certificate: Multi Agent System CrewAI, AWS Cloud Practitioner Certified,Google Introduction to GenAI

Projects

Personalized Alumni Engagement Engine Powered by RAG and Multi AI Agents

- Addressed alumni engagement strategies, **aiming to improve outreach, mentorship matching, and funding opportunities**
- **Developed and deployed a web-based platform** using Python, Quart and React, integrating AutoGen and RAG to automate personalized communication and predictive research funding campaigns

PrepRight: AI-Powered Skill Assessment and Personalized Job Preparation Platform

- Developed PrepRight, an **AI-driven skill assessment platform utilizing NLP (LangChain, OpenAI, Gemini API)** to analyze resumes and job descriptions, identify skill gaps, and generate personalized learning plans
- **Implemented full-stack development** using React, Node.js, Flask, and Python to create an interactive and seamless UI

GameSweeper: Game Theory and AI for Refining Single-Agent Minesweeper Strategies

- Designed an AI framework integrating **Bayesian Networks, Pattern Solvers, and Markov Decision Processes (MDPs)** to address Minesweeper's NP-complete computational challenges
- Achieved up to **90% win rates** on standard grids by implementing AI algorithm and dynamic **game refinement metrics**

Autonomous tracking Robot Using Computer Vision and Machine Learning

- Developed a robot equipped with a camera capable of detecting facial features, measuring distance, analyzing sentiment, and **autonomously tracking individuals**

Research Experience

Developing an autonomous robot with integrated AI decision-making capabilities January 2025-Present
Research Assistant under Professor Shucheng Yu ***New Jersey, USA***

- Software Implementation: **Created motor control architecture** with Python/C++ communication protocols, **implemented multi-threaded camera processing with OpenCV/GStreamer**, and established LiDAR scanning with visualization
- AI Decision Making: Developed algorithms that run on the Jetson Orin Nano, leveraging its GPU capabilities for **real-time perception, path planning, and autonomous navigation through sensor fusion data**

Work Experience

Deloitte USI July 2019 – July 2024
Software Engineer ***Hyderabad, INDIA***

- Collaborated with **Fortune 500 clients like Disney, Walmart, and GE**, delivering robust applications using Python, Java, and JavaScript, resulting in high-performance, client-focused solutions
- **Identified data inefficiencies** in Walmart's e-commerce platform, designed and implemented **optimized ETL pipelines**, which improved data processing speed and accuracy
- Tasked with improving business process efficiency, **integrated AI and computer vision using Amazon SageMaker into Deloitte's proprietary tools**, enhancing accuracy and significantly reducing human error
- Faced with repetitive manual processes in the Disney project, implemented end-to-end automation frameworks, **reducing manual effort by 30–70% and saving 2000–3000 project hours**

Achievements

- **Provost Scholarship** Recipient, Stevens Institute of Technology (2024-2025) & **Spring Research Scholarship** Recipient (2025)
- Won 2nd position in **AWS Deepracer** competition organized by Deloitte
- Finalist in **Technoutsav 2018** by Deloitte for developing a smart parking system under the **Internet of Things** theme

Leadership And Volunteer Work

- **Deloitte Impact Day**: Guided students on career paths and **recorded audiobooks for visually impaired children**
- **Unnat Bharat Abhiyaan (1 year)**: Developed engineering solutions and **prototypes to address challenges in university-adopted villages**