

SAMARTH BHOLE

+1 (704) 804-6704 | sbhole@uncc.edu | Charlotte, NC, USA | LinkedIn | GitHub

EDUCATION

University of North Carolina - Charlotte

Master's, Computer Science

January 2024 - December 2025

GPA: 4

Shri Vaishnav Vidyapeeth Vishwavidyalaya

Bachelor's, Computer Science

June 2019 - June 2023

GPA: 8.07

SKILLS

Skills: Python, Java, JavaScript, ReactJS, Node.js, HTML/CSS, Django, MongoDB, MySQL, SQLite, Git, Django Rest Framework, REST APIs, Android Development, Firebase, NodeJS, AWS, Tensorflow, Scikit-learn, CNN, Transfer Learning, Inception V3, RNN, MediaPipe, OpenCV, CI/CD, Docker, EC2, Lambda, S3, DynamoDB, IAM, CloudFormation, RDS, Tailwind, Bootstrap

PROFESSIONAL EXPERIENCE

University of North Carolina - Charlotte

Graduate Teaching Assistant - Interactive Design Project

Charlotte, NC, USA

August 2024 - Present

- Support students in debugging React.js code and build full-stack projects, optimize their proficiency in full-stack development.

Ideata Analytics Pvt. Ltd

Frappe Full-Stack Developer

Indore, MP, India

June 2023 - October 2023

- Led the development of a management system for institutes, boosting data efficiency by 35% and streamlining exam operations for 10+ institutions. Built animal registration modules (JavaScript, Python APIs) integrated in a poultry management system.
- Resolved 50+ client-raised tickets on ERPNext, significantly boosting system efficiency and user satisfaction by 30%. Focused on performance optimization and bug fixes across ERP modules, ensuring seamless operations and enhanced system stability.

Techlene Software Solutions

Python Django & ML Intern

Indore, MP, India

January 2023 - April 2023

- Engineered an advanced skin disease classification pipeline using CNNs (Inception V3) and Transfer Learning with VGG19, deploying it on AWS EC2 via a Django REST API, achieving a 25% accuracy improvement.

Inflatech Solutions

Founder & Full-Stack Developer

Remote

January 2022 - April 2023

- Developed systems for clients, including a restaurant management system (Python, Django, React) and an auto-parts e-commerce platform (Django, SQLite), increasing order processing speed by 35% and boosting online sales by 20%.
- Built an ERP system (PHP) for GDK & Associates that reduced filing errors by 50%, and an inventory management system (Django) for Maan Foods, improving inventory tracking and partner communication efficiency by 40%.

ACHIEVEMENTS & AWARDS

Winner of the Best First-Time Hack at ShellHacks 2024 by INIT at FIU, Miami Florida

- Built a patient management system that parses medical PDFs, extracts key data, and generates visualizations of health trends. Integrated a fine-tuned Qwen 2.5 LLM for medical analysis, deployed via FastAPI with a Next.js frontend and Express backend.

Winner of the hackathon at TECHNEX 2023 organized by Turing club, at NMIMS, Indore India

- Led a team to build a high-accuracy (90%) clothes pattern recognition system using machine learning and computer vision. Integrated it into a Python Django Clothing e-commerce application, enhancing user search experience by 30%.

RESEARCH WORK

LSTM-Based Autonomous Cryogen Control at Inter-University Accelerator Centre, Delhi

- Implemented LSTM-based neural networks for autonomous cryogen level control in Superconducting Linear Accelerators, achieving $\pm 1\%$ error margin over extended periods. Successfully deployed at IUAC.

Emotion Detection through EEG Brainwaves Using Deep Learning and RNN Models

- Published and presented at the Conference on Sustainable Computing for Multidisciplinary Realities 2022. Achieved 97.34% recognition accuracy using an RNN model with GRU.