NEHA SINGULURI

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DESCRIPTION:

Aspiring software engineer with industry experience at TCS and strong academic background in AI/ML. Passionate about solving real-world problems using deep learning, NLP, and scalable systems.

EDUCATION

Master of Science in Computer Science   **Aug 2023-May 2025**
Missouri State University — Springfield, MO

Bachelor of Technology in Computer Science Engineering   **June 2018-June 2022**
VIGNAN's Foundation for Science, Technology & Research — India

PROFESSIONAL EXPERIENCE

TATA Consultancy Services — Software Engineer   **June 2022-July 2023**

- Delivered managed virtual Linux machine services for Ericsson project using Python and Linux.
- Performed verification and issue resolution using MVL, LMVL, GMVL, and GLMVL environments.
- Handled ticketing and automation workflows via Jira and Jenkins integration.

TATA Consultancy Services — Intern   **Jan 2022-June 2022**

- Gained hands-on training in system security, performance optimization, Agile methodology, and Oracle-SQL.
- Built foundational knowledge in Java, Jenkins, Jira, and project collaboration.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C, HTML, CSS
Tools/Frameworks: Jenkins, JIRA, Azure DevOps, MongoDB, SQL Workbench
AI/ML: Machine Learning, Deep Learning, NLP, Computer Vision, Generative AI, Image Processing.
Productivity: MS Office, Advanced Excel, PowerPoint

PROJECTS

Brain Tumor Image Classification (CNN, VGG16)

Built a deep learning system to classify MRI brain scans into four tumor types. Achieved 98% accuracy using custom CNN; implemented transfer learning with VGG16. Focused on performance evaluation and real-time diagnostic potential.

Intelligent Routing for Smart City WSNs (Deep Q-Networks)

Developed an energy-aware, scalable routing system for wireless sensor networks using adaptive clustering and DQN. Enhanced smart city infrastructure with real-time AI decision-making.

CERTIFICATIONS:

- **Artificial Intelligence Workshop** – MyCaptain
- **Machine Learning Internship** – Verzeo
- **Programming, Data Structures and Algorithms Using Python** – NPTEL
- **Python for Everybody Specialization** – University of Michigan (Coursera)