

VAISHALI KONDOJU

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EDUCATION:

Indiana University , Indianapolis, IN, USA	3.8/4.0 GPA
<i>Master of Science in Applied Data Science</i>	<i>Aug 2023 - May 2025</i>
Jawaharlal Nehru Technological University, Hyderabad, India	9.53/10 CGPA
<i>Bachelor of Technology in Computer Science and Engineering</i>	<i>Aug 2015 – May 2019</i>

EXPERIENCE:

Project Lead & Graduate Research Assistant, Indiana University , Indianapolis, IN, USA	Aug 2023 – Present
<ul style="list-style-type: none">Leading the Knowledge Indiana Project Team, overseeing research initiatives and coordinating data analytics efforts, including managing information through WordPress and working on various test cases in the Indianapolis Wikipedia.Worked on The Polis Center website for user testing, identifying usability issues and improving navigation efficiency.Applied GIS techniques in ArcGIS to analyze and manage geographic data for urban studies, optimizing spatial data workflows and improving accessibility for policymakers.	
Systems Engineer, Tata Consultancy Services , Hyderabad, India	Aug 2022 - July 2023
<ul style="list-style-type: none">Developed Python scripts to extract, process, and visualize real-time network performance metrics, reducing report generation time from 2 hours to 10 minutes, accelerating business decision-making and improving operational visibility by 40%.Designed and optimized SQL scripts to fetch, validate, and preprocess network device lists, reducing data inconsistencies by 95% and ensuring accurate processing for downstream operations.Automated network device discovery and polling by developing a Perl script, increasing monitoring efficiency by 80% and reducing manual effort by over 50 hours per month, enhancing network reliability.	
Software Engineer, Optum Global Solutions (UHG) , Hyderabad, India	Aug 2019 - Aug 2022
<ul style="list-style-type: none">Developed a Python-based automation tool to mock healthcare claims from the production to the test environment, enabling testers to validate real-world data scenarios and reducing manual test case creation time by 70%.Contributed to the development of a web-based portal that fetched and displayed healthcare data from PL/SQL, enabling the business team to track data without direct database access. Worked on HTML, CSS, and PL/SQL queries, along with TypeScript for data mapping, ensuring seamless integration with APIs and improving accessibility by 60%.Engineered and optimized SQL queries and stored procedures to process 837 healthcare claims data, improving claims processing efficiency by 90%.	

TECHNICAL SKILLS:

- Languages and Databases:** Python, Java, C, R, Perl, Oracle PL/SQL, Spark SQL.
- Web development/Cloud:** HTML, CSS, PHP, JavaScript, XML, React.
- ML libraries:** NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit Learn, PyTorch, TensorFlow.
- Technologies:** Geographic Information Analysis (GIS), Machine Learning (ML), Deep Learning (DL), Data Analytics, Data Science (DS), Business Intelligence (BI).
- Tools:** Git, Jenkins, Unix/Linux, VScode, Eclipse IDE, Postman, Excel, VBA, PowerPoint, Tableau, ArcGIS.
- Computer Science Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Design Analysis, software Development Life Cycle (SDLC).

PROJECTS:

- Employee Tracking System – 3-Tier Web Application** | *HTML, CSS, PHP, JavaScript, SQL, DMBS principles*
 - Designed and implemented a secure, **role-based employee management** system with four user types—HR, Manager, Employee, and Super Admin—enhancing organizational efficiency and HR process visibility.
 - Developed user modules for login, registration, attendance tracking, leave management, and training workflows, supporting **CRUD** operations and real-time data access.
 - Created an admin dashboard for HR and Super Admins to manage employee profiles, assign tasks, and generate summary reports, streamlining operations across departments.
 - Hosted on **IU Apache server** using Linux environment for deployment, **enabling real-time testing** and validation of system functionalities.
- BRFF Nutrition Obesity Database Design** | *SQL, DMBS principles*
 - Designed and implemented the BRFFS Nutrition Obesity database using **SQL Developer** and Draw.io for **ER diagram**, creating a normalized database schema to store and analyze nutrition and obesity data from **10,000 respondents**.
 - Leveraged **DBMS principles (normalization, indexing)** to optimize database performance and reduce redundancy, leading to more streamlined data operations.
- CineMatch: Personalized Movie Recommendation System** | *Python, ML, Spark SQL, Flask, HTML, CSS, JavaScript*
 - Developed a personalized recommendation engine using **Python, Scikit-learn, TF-IDF vectorization, and cosine similarity**, analyzing **5,000+ IMDB movies** to enhance content discovery across streaming platforms.
 - Built a web application** with **Flask, JavaScript, HTML, and CSS**, enabling dynamic user interactions, while leveraging **NumPy, Pandas, and Seaborn** for data analysis and optimizing recommendation accuracy by **30%**.

CERTIFICATIONS:

- IBM Data Science & AI Certificate