ANUSHA SHIVA KUMAR

ans797@pitt.edu | (412)-214-3541 | [LinkedIn](#) | [Website](#) | [GitHub](#)

EDUCATION

University of Pittsburgh	**Pittsburgh, PA**
Master of Science in Information Science	*April 2025*
M S Ramaiah Institute of Technology	**Bangalore, India**
Bachelor of Engineering in Computer Science	*April 2022*

SKILLS & INTERESTS

Programming & Tools: Java, Python, C++, C#, .NET React.js, Git, REST APIs.
Databases & Cloud: MySQL, PostgreSQL, AWS, Azure, Google Cloud, Scalable Database Design.
Systems & Development: Linux, OS Fundamentals, Embedded Systems, Networking, Data Structures, Algorithms.
Security & QA: Cybersecurity, JUnit, Postman Debugging, Testing, Performance Optimization.

RELEVANT EXPERIENCE

Responsible Data Science Course Facilitator   **Pittsburgh, PA**
University of Pittsburgh School of Computing and Information   *Aug 2025 - Present*
- Mentor and support 150+ master's students in applying responsible data science principles, including **ethics, fairness, accountability, and AI transparency.**
- Provide technical guidance on **data pipelines, model evaluation, and documentation** using frameworks like **CLeAR**.
- Lead grading and assignment evaluation, leveraging feedback analytics to improve student engagement and learning outcomes.

Graduate Research Assistant   **Pittsburgh, PA**
University of Pittsburgh School of Health and Rehabilitation Sciences   *July 2024 - Present*
- Analyze **large-scale healthcare datasets** to investigate **Medicaid expansion**, **dental and mental health utilization**, and **barriers to care** across **racial and socioeconomic groups.**
- Conduct **statistical analysis** and **data visualization** using **SPSS**, **Excel**, and **Tableau** to support **policy-focused research**, including **chi-square testing** and **comparative analysis** for **academic publications**.
- Collaborate on the development of **research papers**, **codebooks**, and **executive summaries**, translating **complex data** into **clear, actionable insights** for both **academic and policy audiences**.

Data Analyst   **Pittsburgh, PA**
FedEx Ground   *Jan 2024 - May 2024*
- **Developed data-driven consulting insights** using **Excel, Tableau, and Python** to identify inefficiencies in service thresholds, leading to a **15% improvement** in operational efficiency and reduced delivery delays.
- **Partnered with cross-functional teams and key stakeholders** to analyze **package volume and station density**, delivering **strategic recommendations** that resulted in a **projected annual savings of 9.8%** for FedEx Ground.
- **Led data analytics initiatives in a consulting capacity**, driving actionable strategies that secured second place in the KPMG US Cup Competition, where proposed solutions were projected to **save millions annually**.

UI Developer Intern   **Bangalore, India**
Leaps by Analyttica   *May 2022 - Sept 2022*
- Developed responsive web interfaces using **React.js**, **TypeScript**, and **Next.js**, contributing to the frontend of a scalable e-learning platform.
- **Translated design mockups** into **clean, maintainable code** and **optimized user experience**, resulting in a **45% increase in platform engagement**.
- Participated in **agile development cycles**, including **sprint planning** and **code reviews**, gaining hands-on experience with the **full software development lifecycle (SDLC)**.

COURSE PROJECTS

[Reflections](#) A Photo Gallery Application   **Pittsburgh, PA**
University of Pittsburgh School of Computing and Information   *Nov 2024 - Dec 2024*
- Designed and developed the frontend of a full-stack photo-sharing platform using **React.js, Bootstrap, and HTML**, ensuring a **responsive, accessible, and user-friendly UI**.
- Collaborated on backend development, contributing to **.NET API integration, authentication logic, database schema modeling**, and **RESTful API development** using **Node.js, Express.js, and MongoDB** to enhance performance and security.

Blockchain-assisted Verifiable Cassandra   **Pittsburgh, PA**
University of Pittsburgh School of Computing and Information   *Feb 2024 - Mar 2024*
- Implemented a **blockchain-integrated Cassandra** database using **Merkle Hash Trees (MHT)** for tamper-proof data integrity and verifiable query results, ensuring secure database operations.
- Developed Python scripts for **data preparation, query verification, and attack simulations**, demonstrating expertise in database management and scripting.