

DEVANSHU KHADKA

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EDUCATION

University of Chicago <i>Master's in Applied Data Science</i>	Chicago, IL Aug. 2025 – Dec. 2026
Virginia Tech <i>Bachelor of Science in Computer Science,</i> <i>Bachelor of Science in Computational Modeling and Data Analytics</i>	Blacksburg, VA Aug. 2020 – Dec. 2024

EXPERIENCE

Graduate Research Assistant – Biomedical Data Science & AI <i>University of Chicago</i>	September 2025 – Present Chicago, IL
<ul style="list-style-type: none">Implemented Leiden clustering in Python (Scanpy) to analyze single-cell spatial proteomics data, quantifying how nuclear and membrane biomarkers influence cluster identity and cell-type classification.Constructing a segmentation and feature-extraction pipeline for high-plex microscopy images to refine single-cell boundaries and improve clustering accuracy across cancer datasets.	
Software Engineering Internship/ Co-op <i>Berkley Alternative Markets Tech</i>	June 2024 – December 2024 Manassas, VA
<ul style="list-style-type: none">Designed and implemented 15+ Katalon test suites for Guidewire workflows, enhancing end-to-end automation coverage across claims, checks, and litigation.Performed K6 performance testing on backend GraphQL API calls, supporting validation of system reliability under varied load conditions.	
DevOps Intern <i>EZOPS</i>	June 2023 – August 2023 Blacksburg, VA
<ul style="list-style-type: none">Built an internal tool to manage 20+ AWS EC2/RDS instances with real-time controls, streamlining DevOps workflows and Agile collaboration via Bitbucket.	
Undergraduate Teaching Assistant (CS 1114) <i>Virginia Tech</i>	January 2023 – May 2023 Blacksburg, VA
<ul style="list-style-type: none">Mentored 50+ students in foundational programming, guiding them through assignments and debugging code to enhance their skills. Graded homework, quizzes, and programs.	

PROJECTS

Traffic AI Crash Rate Predictor <i>Python, React, Next.js, TensorFlow, MongoDB, Docker</i>	Aug 2024 – Dec 2024
<ul style="list-style-type: none">Built a full-stack web app with role-based access, using TensorFlow, React, FastAPI, MongoDB to predict traffic crash rates and generate dynamic reports.	
AI Web Scraper <i>Python, Playwright, Power BI, Git</i>	Aug 2024 – Dec 2024
<ul style="list-style-type: none">Built an automated ETL pipeline using Playwright and Python to scrape structured parish data across paginated, dynamic web content and visualize results in a Power BI dashboard.	

CERTIFICATES / ACHIEVEMENTS

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| • AWS Certified Cloud Practitioner | • Microsoft Azure Data Fundamentals |
| • AWS Solutions Architect – Associate | • Grand Champion – VT CMDA Data Competition |
| • AWS Certified AI Practitioner | |

TECHNICAL SKILLS

Languages: Python, Java, Groovy, Kotlin, R, C, MATLAB, JavaScript, SQL (Postgres), HTML/CSS
Tools/Frameworks: AWS, Azure, TensorFlow, Spark, Hadoop, Hive, React, Node.js, Flask, FastAPI, Spring Framework, MERN Stack, JUnit, Material-UI
Software: Power BI, Tableau, Excel, GitHub/GitLab, Docker, JIRA, Figma, SageMaker
Libraries: pandas, NumPy, Scikit-learn, Matplotlib, GraphQL, OpenAI API
Statistical Methods: A/B testing, hypothesis testing, regression, confidence intervals, statistical inference