

DEVANSHU KHADKA

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EDUCATION

University of Chicago	Chicago, IL
MS in Applied Data Science	Sept 2025 – Dec 2026
Virginia Tech	Blacksburg, VA
BS in Computer Science & Computational Modeling and Data Analytics	Aug 2020 – Dec 2024

EXPERIENCE

University of Chicago	Chicago, IL
Graduate Research Assistant – Biomedical Data Science	Sept 2025 – Present
<ul style="list-style-type: none">Developing end-to-end Python pipelines for high-plex spatial proteomics, performing data preprocessing, feature extraction, PCA, and Leiden clustering using Scanpy on Midway3 HPCOptimized and benchmarked pipeline parameters (neighbors, principal components, resolution) to assess clustering stability, runtime, and reproducibilityGenerated analytical figures, heatmaps, and summary reports to visualize results and support downstream biological interpretation	
Berkley Alternative Markets Tech	Manassas, VA
Software Engineering Intern	Jun 2024 – Dec 2024
<ul style="list-style-type: none">Automated 15+ Katalon workflows to validate data outputs across Guidewire claim and check modulesUtilized K6 API scripts to call multiple GraphQL endpoints and validated GraphQL response fields matched defined schema contracts	
EZOPS Inc	Blacksburg, VA
DevOps Intern	Jun 2023 – Aug 2023
<ul style="list-style-type: none">Built internal AWS control tooling for 20+ EC2 and RDS instances to standardize environment setup for engineering and analytics teamsWorked within Bitbucket Pipelines and Jira workflows to support standardized deployment and task tracking across cross functioning teams	
Virginia Tech	Blacksburg, VA
Undergraduate Teaching Assistant	Jan 2023 – May 2023
<ul style="list-style-type: none">Assisted 50+ students in Python fundamentals, debugging practices, and algorithmic problem solving	

PROJECTS

Crash Rate Prediction from Traffic Volume Data	Sep 2024 – Dec 2024
<ul style="list-style-type: none">Built a machine learning pipeline to predict roadway crash rates from traffic volume inputs, performing feature engineering and TensorFlow model trainingDeployed the model into a web application where authenticated users could upload data and generate predictions through an interactive interface	
Parish Data ETL & Dashboard Analytics	Sep 2024 – Dec 2024
<ul style="list-style-type: none">Automated multi-stage extraction of parish data from diocesan websites using Python (Playwright + BeautifulSoup), producing structured CSV outputs across multiple diocesesCleaned and standardized scraped results into analytic tables and visualized engagement patterns in a Power BI dashboard for downstream analysis and insight generation	

Certificates / Achievements

- Amazon:** AWS Solutions Architect – Associate, AWS Certified Cloud Practitioner, AWS Certified AI Practitioner
- Microsoft:** Microsoft Azure Data Fundamentals
- Hackathons:** Grand Champion – VT CMDA Data Competition

SKILLS

Languages	Python, R, Java, SQL, C, MATLAB, DAX, HTML/CSS, Groovy, Kotlin
Tools & Frameworks	Numpy, Pandas, Scikit-Learn, Tensorflow, XGBoost, Spark, Matplotlib, GraphQL, Hive, React
Software & Cloud	PowerBI, Tableau, Git, Google Cloud, AWS, Azure, JIRA, SageMaker, Excel
Management	Agile, Scrum, Stakeholder Engagement, Design Thinking, Cross-functional collaboration
Modeling & Analytics	Clustering, Regression modeling, Time-series forecasting, A/B Testing, Statistical inference