

# Ramchandra Chawla

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## Summary

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Data Analyst with a B.S. in Computer Science and experience in machine learning, applied AI, and analytics across UNC Health and UBS. Currently pursuing an M.S. in Data Science and Business Analytics with a Graduate Certificate in Artificial Intelligence Systems Development while serving as a Graduate Teaching Assistant. Technical expertise includes utilizing Python, SQL, Power BI, and Microsoft Azure to build AI-enabled solutions, robust data pipelines, and analytical workflows for complex clinical and business problems.

## Education

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### University of North Carolina at Charlotte

Charlotte, NC

*Master of Science in Data Science and Business Analytics*

Aug 2025 – May 2027

- Honors: Graduate Certificate in AI Systems Development; Early Entry Program; SDS Student Government - Secretary

### University of North Carolina at Charlotte

Charlotte, NC

*Bachelor of Science in Computer Science, AI, Robotics, and Gaming*

Aug 2024 – May 2026

- Honors: Chancellor's List; Dean's List; ACM; PILOT Program; CCI Mentorship Program; H.E.L.P. Certificate

## Experience

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### Data Science Intern

May 2026 – Sept. 2026

*UNC Health – Enterprise Analytics and Data Services (EADS)*

*Morrisville, NC*

- Designing an AI-assisted workflow using Azure OpenAI to classify hospital discharge barriers from unstructured clinical documentation, supporting initiatives to reduce medically unnecessary hospital days.
- Developing and refining prompt engineering strategies through iterative testing and collaboration with physicians, clinicians, and data scientists to improve classification consistency and clinical relevance.
- Building a classification pipeline with Microsoft Fabric, Azure Databricks, and Azure OpenAI to generate structured discharge barrier labels and confidence scores from free-text clinical notes while evaluating deployment and validation requirements.

### Data Analyst Intern

June 2025 – Aug 2025

*UBS Solutions US LLC*

*Raleigh, NC*

- Analyzed 100,000+ operational records using SQL and Excel to support infrastructure provisioning and decommissioning processes, improving reporting accuracy and operational visibility.
- Developed 6 Power BI dashboards to identify weekday-versus-weekend utilization trends and support infrastructure cost optimization discussions.
- Reconciled data across 5 internal systems and resolved 10+ data quality and reporting issues through root-cause analysis, process improvements, and documentation of sustainable solutions.

## Projects

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### Lightweight Transformer for Skeleton Based Action Recognition | *Python, PyTorch*

Oct 2025

- Built an end to end PyTorch pipeline for NTU RGB+D 60 including preprocessing, joint normalization, and temporal windowing.
- Implemented unified spatial temporal attention and compact multi scale pooling, then ran ablations to analyze accuracy versus efficiency tradeoffs.

### Predictive Modeling of Soccer Match Outcomes | *Python, scikit-learn*

Feb 2025

- Processed 9,000 match records and engineered 200+ features capturing recent form and situational context for win, loss, draw prediction.
- Trained Logistic Regression and Neural Network models and evaluated precision, recall, F1, and ROC metrics.

## Technical Skills

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**Machine Learning and AI:** PyTorch, scikit-learn, pandas, NumPy, Matplotlib, Azure OpenAI

**Data Analytics and BI:** SQL, Power BI, Excel, Microsoft Fabric, Data Visualization

**Data Engineering and Cloud:** Databricks, Azure, Data Pipelines, ETL concepts, Workflow Automation

**Languages:** Python, Java, C/C++, R, JavaScript, HTML, CSS, SAS

**Tools:** Git, GitHub, GitLab, Linux, VS Code