

DEREK CARAMELLA

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EDUCATION

Master of Science, Data Science Computational Methods <i>University of Rochester</i>	May 2022 GPA: 3.9/4.0
Bachelor of Arts, Economics Mathematics Bachelor of Arts, Business Administration	May 2021 GPA: 3.9/4.0
Bachelor of Arts, Political Science Public Affairs <i>Elmira College</i>	

PROFESSIONAL EXPERIENCE

Functional Analyst <i>Tiber Creek Consulting</i>	August 2021 – Present <i>Fairfax, Virginia</i>
<ul style="list-style-type: none">• Design, build, & deploy at least 6 military software programs simultaneously utilizing the SCRUM project management• Construct ERP diagrams & convert diagrams into at least 7 SQL servers with over 50 tables in each server• Collaborate with clients to address workflows, UX designs, required reports, & dashboard configurations on a weekly basis• Extract, load, & transform raw data to produce datamarts that feed 15 weekly reports in accounting & military applications	
Digitization Lead <i>Pladis Global</i>	June 2019 – June 2021 <i>Big Flats, New York</i>
<ul style="list-style-type: none">• Designed & developed the inference code to draw logical conclusions using python, resolved errors within the project & ensured its efficiency & effectiveness by an increase of 10%• Constructed analysis tools with Python Dash & VBA to model performance, quality, & equipment availability that increased reporting efficiency by 40%• Tuned the hyperparameters of ensemble machine learning models to increase model performance by 1.5%• Gathered data from over 16 physical locations & fabricated a Microsoft SQL database that increased record archival by 150% & increased statistical analysis by 60%	
Political Campaign Consultant <i>Trailblazers Political Action Committee</i>	September 2018 – August 2019 <i>Horseheads, New York</i>
<ul style="list-style-type: none">• Hosted campaign training workshops in New York & Pennsylvania once a month to approximately 40 individuals that increased candidate pipeline & outreach• Collaboratively created innovative processes responsive to macroeconomic & competitive forces that ensured 5% annual growth	

SKILLS

- **Python** | Advanced | *Scikit-learn, Spark, MLFlow, Numpy, Pandas, Tensorflow, Flask, Matplotlib, Seaborn, Plotly, & Opencv*
- **SQL** | Advanced | *Formulate intricate queries for KPI reporting & data manipulation*
- **R** | Intermediate | *Sample from non-standard posterior distributions & perform Bayesian inference on hierarchical models*
- **Stata** | Intermediate | *Compose & assess complex multivariate regressions & other statistic techniques*
- **Visual Basic Application** | Intermediate | *Fabricate seamless user-forums & templates in Excel*
- **Power Bi** | Intermediate | *Construct, maintain, & analyze Power Bi reports*

AWARDS & FELLOWSHIPS

• Provost Award in Business Management Business Award	May 2021
• Phi Beta Kappa Liberal Arts Honor Society	January 2020
• Omicron Delta Epsilon Economics Honor Society	January 2020
• Sigma Beta Delta Business Honor Society	January 2020
• Pi Sigma Alpha Political Science Honor Society	April 2018

CERTIFICATION

- DoD Secret Clearance
- Biomedical Researcher
- HIPAA for Business Associates
- NYS Notary Public

