

COVER LETTER

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Respected sir/madam,

I am writing to express my enthusiasm in the field of Data Science. As a dedicated Master's student in Data Science at Rutgers University - Camden, my extensive experiences in machine learning, data engineering, and data analytics, coupled with impactful research and internships, uniquely position me to contribute to your dynamic team.

My academic journey is complemented by impactful personal projects, including "AI Enhanced Malnutrition Monitoring & Prediction," presented at NCRIMA on Artificial Intelligence. This research involved the integration of health records, dietary habits, and socio-economic indicators, employing advanced machine learning algorithms and neural network frameworks for real-time malnutrition monitoring.

During my internship at Phoenix Global, I led Retention and Churn Analysis initiatives, employing cohort analysis charts to derive actionable insights into user behavior. My proficiency in A/B testing and statistical analysis resulted in a notable 10% increase in user engagement and a 15% improvement in retention rates. Utilizing machine learning algorithms, I applied techniques such as RandomizedPCA for dimensionality reduction and kernel transformations to uncover non-linear boundaries.

As a Time Series Analyst intern at DevTown, I implemented a dynamic content delivery scheduling system using LSTM models, contributing to a 15% increase in user engagement during peak hours. I also applied ARIMA models to enhance the robustness of the content delivery scheduling system, effectively capturing and forecasting temporal patterns.

In addition, I have spearheaded personal projects such as "Algorithmic Financial Forecasting" and "Social Harmony Recommender," showcasing my proficiency in programming languages like Python, R, and SQL, along with a diverse set of tools and technologies such as TensorFlow, TFLite, PyTorch, Scikit-Learn, Keras, IBM SPSS Statistics, Tableau, Power BI, Microsoft Azure, Apache Spark, Apache TVM, and Raspberry PI.

I am eager to bring my unique blend of academic excellence, practical experience from internships, and impactful research to the innovative work at your company. I am confident that my comprehensive skill set aligns well with the requirements. I look forward to the opportunity to discuss how my experiences and contributions can contribute to the success of your team.

Thank you for considering my application. I am excited about the prospect of contributing to the company's data science initiatives.

Sincerely,

Aryan Siddhabathula