

Ravi Donepudi

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CarParts.com
Torrance, CA

May 17, 2021

Dear Hiring Staff,

I am writing in response to the Data Scientist position at your company that is posted on LinkedIn. As I just completed my Ph.D in Mathematics at the University of Illinois at Urbana-Champaign, I am looking to offer my talents and experiences for your company. With my strong background in mathematics and internship experience in machine learning and data science, I believe that I am well suited for this position.

My abilities as a data scientist are rooted in a sturdy education in mathematics. Earlier this month, I defended my Ph.D. in mathematics focusing on algorithmic and computational number theory. Much of my work involved coding and manipulating abstract mathematical objects using various Python libraries. Over the course of my Ph.D, I have had to quickly learn new tools, stay on top of current research and write many technical documents as part of my training. In addition to my thesis work, I also have three published articles in reputed mathematical journals. I have given presentations and talks about my work in conferences around the world. In addition, I have also mentored four undergraduate research projects in mathematics, all of whom presented their work in conferences.

Complementing my academic experience, last summer I was a data science intern at Ameren, a Fortune 500 power company. In this role, I leveraged electricity data streams from millions of households in Illinois and developed spectral clustering algorithms to detect and correct anomalies in network connectivity. Our algorithms corrected an estimated 85% of errors in the network saving Ameren thousands of employee hours doing manual fieldwork checking and correcting these errors. This was an extremely fruitful learning experience for me given my purely academic background. I enjoyed the work greatly and decided to pursue a career in data science.

I would be honored to spend some time with you during an interview to discuss any questions or concerns you may have. Thank you for taking the time to consider me.

Sincerely,



Ravi Donepudi