

Dear Hiring Manager,

I hope this email finds you well.

I am excited to apply for the **Industrial Engineering Coop** position at **Form Energy**. With a shared passion for addressing the challenge of climate change, I am thrilled to join a team committed to delivering innovative energy storage technologies for a 100% renewable electric grid. Having reviewed the Job description and objectives and I believe that my educational background, professional experience, and technical skills align well with the Job requirement, making me an ideal candidate for this role.

Currently, I am pursuing a **Master of Science in Data Analytics Engineering at Northeastern University** and I am on track to graduate in May 2024 with a **3.9 current GPA**. Throughout my academic journey, I have completed/pursuing relevant coursework in Database Management for Analytics, Algorithms, Foundations of Data Analytics, Mining, and Computation and Visualization for Analytics. These courses have equipped me with a strong foundation in analytics systems especially in Python (Attaching my Leetcode profile as well for my hands-on skills) and technologies, which I believe will contribute to my effectiveness for this role. Other than this I have completed 15+ external courses from prestigious platforms such as HarwardX, IBM, Azure Bootcamp and Google. I would like to specially mention a limited time course, 'Python for research offered by HarwardX with **Professor Jukka-Pekka "JP" Onnela**' which helped me a lot to gain Advance Knowledge of Python for deeper Analytics.

Additionally, I hold a Bachelor of Technology in Electronics Engineering from Veermata Jijabai Technological Institute in India, where I gained a comprehensive understanding of key concepts such as Data Structures, Image and Video Processing, Neural Networks and Fuzzy Systems, and Database Management Systems.

I have gained practical experience in the field through my professional endeavors. As a **Data Visualization Intern at Saint Louis University**, I successfully executed an A/B test on Meta ads, resulting in a 5% monthly subscriber increase on the client's Meta page. I am proficient in analyzing structured and unstructured data, **with a particular focus on NLP for textual features**. During my tenure as a **Project Head and Computer Vision Intern at Eddy Tool & Tech Solutions**, I led a team in inventing an attention-tracking system using facial landmarks(Dilb Cmake Library) and variance of live transmission or recording for proctoring purposes. I also collaborated with senior team members on data warehousing, data cleaning, and implementing machine learning and computer vision algorithms. This experience enhanced my proficiency in analytics, Business Intelligence, statistics, and data science.

In terms of academic projects, I recently completed a project called "**CredRisk: A Credit Risk Forecasting Predictor Model**" at Northeastern University. This project involved developing and maintaining data pipelines, performing ETL on LendingClub data, and applying various ML and advanced analytics techniques to fine-tune the data for feature extraction. I worked on the "**All-in-one Airport Management System using MySQL**" (Available on GITHUB)project, where I created an RDBMS containing entities related to airport management, connected the entities with access control, and utilized visualization tools such as Tableau and Python libraries for data representation.

Here is my PRO GitHub profile with my latest and past projects. I have also created **several visualization websites** {

- <https://sites.google.com/husky.neu.edu/project-2-group45-cva/home>

- <https://sites.google.com/husky.neu.edu/group45compvizproject1/home> }

and Tableau Public Profile and gained experience in handling well-worded WordPress websites for the **Graduate Student Government at Northeastern University**.

You can find my resume and unofficial transcripts resources in the attachments.

In addition to my academic and professional accomplishments, I have also obtained the **Kaggle Advanced SQL certificate**, showcasing my mastery in aggregate functions, window functions, triggers, procedures and BigQuery datasets. Furthermore, I hold the position of **VP of Relations and Projects** at the Data Science Hub at Northeastern University, where I am responsible for hosting **Kaggle Days DataThon**. I am also honored to have been selected as a **Climate Justice Fellow** for 2023, working on documenting Northeastern University's first Climate Justice Action Plan.

I have a strong eagerness to learn and embrace new manufacturing concepts. With excellent communication, organizational, and problem-solving skills, I am confident in my ability to contribute effectively to your **Battery Products Build team**.

Beyond my technical qualifications, I bring a **genuine** commitment to building a better future. As a **Climate Justice Fellow**, I actively contribute to **addressing environmental challenges** and creating an inclusive environment for all. I am thrilled to join Form Energy, working towards a 100% renewable energy future.

Thank you for considering my application. I have attached my resume for your reference, providing further details on my qualifications and experiences. I am available for an interview at your convenience to discuss how my skills align with the role. I look forward to the possibility of contributing to Form Energy's mission and making a meaningful impact.

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