

## COVER LETTER

Dear Hiring Manager,

I am writing to express my interest in the Machine Learning Engineer role at your company as listed. With a Master's in Computer Science from Stevens Institute of Technology and hands-on experience gained through internships and academic projects, I am confident in my ability to contribute effectively to your team.

### EDUCATION:

Master of Science in Computer Science (December 2023) - Stevens Institute of Technology, Hoboken, NJ  
Bachelor of Technology in Computer Science (July 2018 - July 2022) - Jaypee University of Information Technology, INDIA

### TECHNICAL SKILLS:

Languages and Databases: Python, JavaScript, PostgreSQL, Firebase, MongoDB  
Frameworks and Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, MLflow, Express, Node.js, React.js  
Other Skills and Technologies: Machine Learning, Deep Learning, NLP, CI/CD, Docker, Kubernetes, Flask, Data version control, Git

### EXPERIENCE: Developer Analyst Intern (June 2023 - August 2023) - Barclays, Whippany, NJ

Developed a hybrid recommendation system for 3000+ employees using collaborative and content-based filtering. Implemented Python-based visualization for impactful reporting and dynamic dashboards. Built a high-performance web portal using Docker, resulting in a 36% improvement in load times. Collaborated with stakeholders, QA, and software development teams for effective project management.

### RESEARCH AND PUBLICATIONS:

IEEE ICCCNT 2021: "Towards a Multimodal System for Precision Agriculture using IoT and Machine Learning" IEEE AIKE 2021: "On CI/CD for Automated Deployment of Machine Learning Models using MLOps"

### ACADEMIC PROJECTS:

"Body-Fat-Prediction-with-Machine-Learning-and-MLOps": Published in MIPRO 2021, Optija, Croatia. "Providing Valuable Insights to MOOC Users": Conducted sentiment analysis on user reviews for online courses.

I am excited about the opportunity to bring my skills in machine learning, software development, and project management to company. My academic background, combined with practical experience in building recommendation systems and deploying machine learning models, aligns well with the challenges and innovations in your organization.

Thank you for considering my application. I look forward to the possibility of discussing how my skills and experiences can contribute to the success of the company. Please find my resume attached for your reference

Sincerely,  
Pradyumn Pundir  
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