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, Founder and CEO of Optium Data Solutions LLP | BS in Computational Modelling and Data Analytics w Minor in CS and Mathematics from Virginia Tech



• Drexel University College of Computing & Informatics

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About



At the age of 11, I was captivated by Mark Zuckerberg's tale of birthing Facebook. The narrative of a young visionary, with just a laptop forging connections for billions, illuminated the profound potential of computer science.

... [...see more](#)



Top skills

Start-up Leadership • Python (Programming Language) • Machine Learning • Artificial Intelligence (AI) →



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n!

This journey has deepened my understanding of AI and machine learning concepts within the AWS ecosystem, and I'm thrilled to apply this knowledge to real-world projects. A big shoutout and thanks to Stéphane Maarek for his amazing courses and practice sets on Udemy, which were incredibly helpful throughout this process! 🙌 ...more



AWS Certified AI...
credly.com

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Experience



CEO & Founder

Optium Data Solutions LLP · Self-employed

Jun 2022 - Aug 2023 · 1 yr 3 mos

New Delhi, Delhi, India · Hybrid

• Championed the creation and rollout of an ERP for web and Android, optimizing modules across procurement, manufacturing, HR, ...see more

💎 Database Design, Continuous Integration and Continuous Delivery (CI/CD) and +8 skills



Treasurer & Programming Team Member

Martian Subsurface Analysis Team

Jan 2019 - May 2021 · 2 yrs 5 mos

Blacksburg, Virginia, United States · On-site

• Collaborated with a cross-disciplinary team of 40+ engineers to design an autonomous robot for NASA's Moon to Mars Ice Challenge ...see more

💎 Scikit-Learn, Machine Learning and +4 skills

Research Intern

Postdoctoral Scientist Dr. Aamir Abbasi · Apprenticeship

Oct 2020 - Dec 2020 · 3 mos

Remote

• Spearheaded the development of a highly optimized Python-based linear regression model aimed at illuminating the relationship ...see more

💎 Deep Learning, NumPy and +7 skills



AIML Research Intern

Indian Institute of Technology, Roorkee · Internship

Apr 2020 - Sep 2020 · 6 mos

- Conducted a rigorous time series analysis in Python to forecast fluctuations in COVID-19 cases within Uttarakhand.... [...see more](#)

🔹 Deep Learning, NumPy and +8 skills

Founder

Ormat - Self-employed

ing underprivileged students to online
dy materials and support. C ...see more

ational Database Service (RDS) and

periences →

Education



Drexel University College of Computing & Informatics

Master's degree, Artificial Intelligence and Machine Learning
Sep 2023 - May 2025

🔧 Natural Language Processing (NLP), Data Science and +7 skills



Virginia Tech College of Science

Bachelors in Computational Modelling and Data Analytics , Data Science
Aug 2018 - May 2022

Activities and societies: Martian Subsurface Analysis Team, Spark

Major in Computational Modelling and Data Analytics with Minors in
Computer Science and Mathematics

🔖 R (RStudio), R Markdown and +19 skills

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Licenses & certifications



AWS Certified AI Practitioner Early Adopter

Amazon Web Services (AWS)
Issued Nov 2024

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Artificial Intelligence (AI) and Machine Learning



Deep Learning Specialization

DeepLearning.AI
Issued Jun 2024
Credential ID 98FZFFZTEVKC

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🔮 Machine Learning, Artificial Intelligence (AI) and +3 skills



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Projects

Heuristic Pegboard Solver

Sep 2023 - Dec 2023



Associated with Drexel University College of Computing & Informatics

- Created an automatic solver for the pegboard puzzle using A* search, achieving >99% reduction in explored states and solution time compared to brute force ...see more



github.com/farzanmrz/heuristic-pegboard-solver

MATLAB Seam Carving

Sep 2023 - Dec 2023



Associated with Drexel University College of Computing & Informatics

for image resizing and energy

tegrates neural network-ins ...see more

matlab-seam-carving

projects →

Skills



Search Algorithms

Heuristic Pegboard Solver

Heuristic Analysis

Heuristic Pegboard Solver

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Courses



Artificial Intelligence

CS510



Associated with Drexel University College of Computing & Informatics

CS foundations of CMDA

CMDA3634



Associated with Virginia Tech College of Science

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Interests

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Don Tapscott · 3rd

Co-Founder & Executive Chairman at Blockchain Research Institute | 9X Bestselling Author | 2X TED Speaker | Fighting For Our Future & Advocating For a New Digital Age Social Contract

754,710 followers

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Jim Yong Kim · 3rd

Vice Chairman and Partner at Global Infrastructure Partners

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Message



Rajni Mehta

Senior Data Engineer | Pursuing Master's in AI & Machine Learning at Drexel University | Passionate About Data-Driven Solutions

Message





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People you may know


From your school



Khushboo Patel

MS in AI ML @Drexel


Connect



Kriti Sarawgi

Seeking AI/ML Internship | MS AIML'26 @ Drexel | PGC AIML @ IIT-J | Transformers, NLP, HuggingFace, Deep Learning, Flask | Ex-HPE


Connect



Prateek Goel

Ph.D. Candidate at Drexel University College of Computing & Informatics


Connect



Ramgopal Ravi

Masters Student, Data Science @ Drexel | Formerly Athena Capital Research, Ex-Morgan Stanley, HKUST

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Pooja Bandekar

M.S. Computer Science at Drexel University | Java & Python Developer | Actively Seeking Co-op

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