

# Atul Gupta

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## EDUCATION

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**Master of Science - Computer Science (GPA: 3.96)** **Sep 2022 - May 2024**

*Stevens Institute of Technology, Hoboken, New Jersey*

Relevant Coursework: Machine Learning, Deep Learning, Big Data, Data Mining with R, Algorithms

**Bachelor of Technology - Electrical and Electronics Engineering** **Jun 2013 - Jun 2017**

*Vellore Institute of Technology, Vellore, India*

Thesis: Optimal placement and sizing of Distributed Generation energy units using Sine-Cosine algorithm in MATLAB

## SKILLS

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- **Machine Learning**

**Programming:** Numpy, Pandas, Scikit-learn, Tensorflow, Keras, Seaborn, Matplotlib, R, PySpark, Scala

**Tasks:** Regression, Classification, Clustering, Dimensionality Reduction, ETL pipelines

**Methods:** Logistic/Linear Regression, Neural Networks, Decision Trees, Random Forest, Bagging, XGBoost, AdaBoost, Support Vector Machine/Classifier

**Algorithms:** Gradient Descent, Stochastic Gradient Descent, Coordinate Descent, Dual CD, SVD

**Mathematics:** Bayesian Decision Theory, Deep Learning, Reinforcement Learning, Statistics, Probability

- **Software Development**

**Core:** Python, Java, Linux, Windows

**Databases:** MS SQL Server, MySQL, MongoDB, SparkSQL

**Cloud:** AWS EC2, S3, RDS, Lambda, IAM

## PROJECTS

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- **Flight Delay Predictor, Stevens Institute of Technology** **Sep 2023 – Dec 2023**  
Developed a machine learning classification model using PySpark to analyze ten years of flight delay data, enabling predictive insights for future flights
- **Credit Score Classifier, Stevens Institute of Technology** **Sep 2023 – Dec 2023**  
Implemented machine learning models using TensorFlow and scikit-learn on credit score data of 50k customers to predict credit score class with 90% accuracy
- **Recommender System, Stevens Institute of Technology** **Jan 2023 – May 2023**  
Implemented a movie recommender system by utilizing the Singular Value Decomposition (SVD) algorithm, leveraging Numpy and Pandas for efficient data manipulation and analysis
- **Solar Project Management, Stevens Institute of Technology** **Jan 2023 – May 2023**  
Scrum Master for solar project management web app development, overseeing Agile methodologies and facilitating team collaboration to deliver a robust platform using Node.js, Express.js, basic HTML/CSS, and MongoDB, resulting in enhanced efficiency and client satisfaction

## WORK HISTORY

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**Accenture, Gurugram, India**

**Jan 2019 - Jul 2022**

*Application Developer*

- Managed 6000+ MS SQL Server instances globally, achieving over 98% uptime by optimizing SQL objects
- Received Accenture's **TechStar 2022** award (top 1% employee), **Accenture Celebrates Excellence (ACE)** award and **Pinnacle** award for innovation and excellence
- Developed 2 interactive support dashboards to visualize key performance metrics for support teams
- Implemented an analytics tool utilizing classification models to forecast remote software installation failure prior to major patch rollouts, enabling proactive resolution of server issues