

# Pranay Kumar Verma

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## EDUCATION

**Syracuse University** – College of Engineering and Computer Science, Syracuse, NY May 2021

Master of Science in Computer Science (GPA – 4.0)

*Courses:* Intro to Data Science, Structured Programming & Formal Methods, Design/Analysis of Algorithms, Neural Networks

**Amity University** – Amity School of Engineering and Technology, Noida, India June 2015

Bachelor of Technology in Computer Science and Engineering

*Courses:* Digital Image Processing & Computer Vision, Pattern Recognition, Mobile Application Development, DBMS, OOP

## EXPERIENCE

**Syracuse University – Graduate Teaching Assistant – Analysis of Algorithms & Software Implementation** Aug 2020 – Present

- Conducted recitation lectures and mentored the students with coursework, homeworks and exams.
- Assisted faculty to create exam strategies, homeworks, conduct exams and structure the grading process.

**DXC Technology (Formerly Known as CSC) – Noida, India** Sep 2015 – July 2019

**Professional 1: Mobile Application Programmer and Application Package Management Lead** Feb 2018 – July 2019

- Conceptualized and developed offline framework for Hybrid Mobile Application developed using AngularJS and Cordova.
- Improved data fetch performance by 30% by optimizing SQL procedures, restful webservice and the front-end code.
- Accountable for product quality before delivery, ensure deliverables are on time, QC Reports, defect trend analysis.
- Served as Onsite Coordinator, solved high priority customer problems, part of gate meetings and Hotline support.
- Led Build and Deployment team: proactively involved in creating build plans and merge strategies with 3 team members.

**Associate Professional: Application Programmer and Application Package Management** Sep 2015 – Jan 2018

- Created multiple configurable directives and components to improve reusability, potentially reducing 6,000+ lines of code.
- Developed various new modules for Hybrid Mobile Application made using AngularJS and Cordova.
- Administered maintenance of MVC and .NET based web application and dealt with QC defects and customer issues.
- Automated part of the build process using PowerShell scripting & Jenkins, saving 3 hours per build in addition to manual work.

**Software Development Intern, SRF Limited – Gurgaon, India** May 2014 – June 2014

- Developed a Robust Reporting Module for SRF McAfee Antivirus Database making on demand reporting possible, using SQL Server and .Net, which allowed for report extraction with a variety of filters allowing to get reports on demand.

## CERTIFICATIONS / AWARDS

- [AWS Fundamentals Specialization](#) – AWS Core Concepts, Security, Building serverless apps [\[View Certificate\]](#) March 2021
- [Modern React with Redux](#) – React JS and Redux, NPM, Webpack, Babel, ES6/ES2015 JS [\[View Certificate\]](#) August 2020
- [Neural Networks and Deep Learning](#) – DeepLearning.ai offered by Coursera [\[View Certificate\]](#) August 2019  
Topics: How to build, train & apply connected deep neural networks, key parameters in a neural network's architecture.
- [Machine Learning](#) – Stanford University Online offered by Coursera [\[View Certificate\]](#) July 2019  
Topics: Various machine learning techniques and best practices, data mining, and statistical pattern recognition.
- Awarded performer of the year for continued innovations and stand out performance in the team. Jan 2018, Jan 2019

## ACADEMIC PROJECTS

**ProcSmart – A Smart Online Proctoring System**

- An autonomous proctoring system for real time activity monitoring of candidates during an online examination, does not entail any live proctoring or recordings. Leveraging ML and AI models the system Flags users when an anomaly is detected.

**YouTube Sentiment Analysis and Predicting Trends**

- Applied various Sentiment Analysis Techniques on comments of top 200 videos of a YouTube channel specified by user. Leveraged Machine Learning and Neural Networks Algorithms to predict comment sentiments on upcoming days after a time series dataset was created. Achieved accuracy of 96% predicting upcoming comment sentiment using the earlier analysis.

**Predicting Financial Markets using Machine Learning**

- Used different types of regression and LSTM to learn trends and predict future stock prices. Developed in a way that the stock could be selected by the user at runtime. Evaluated the methods and the best yielded confidence of 95%.

**Airline Delay Prediction using Machine Learning**

- Used various machine learning models to accurately predict flight delays with the minimum number of attributes. Compared the performance of the models in an attempt to come up with an algorithm that would provide up to 89% accuracy.

**Order Management and Report Creation Web Application**

- Developed a full stack web app using Angular JS, WCF Restful Services and SQL which provided a comprehensive dashboard for managing, adding and tracking orders. Automated the creation of customizable reports for order and shipping summary.

## ADDITIONAL EXPERIENCE

**Volunteer, Bliss Foundation – Delhi, India** Aug 2016 – Aug 2019

- Assisted in content creation and development and an active participant in cancer awareness drives and support groups.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, Angular JS, jQuery Mobile, React, Cordova, WCF Restful, .Net, MVC, C#, Node.js, Python, Flask

**Databases:** SQL Server, SQL Lite

**Operating Systems:** Windows XP and above, Mac OS, Android, iOS