

Naman Mansukhani

HIGH SCHOOL SENIOR AT DELHI PUBLIC SCHOOL R.K. PURAM



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github.com/namanmansukhani

INTERNSHIPS/ PROJECTS UNDERTAKEN

Pace Stocking Broking Services Pvt. Ltd., New Delhi — Intern Data Analyst

Worked on data retrieval and back testing to generate a financial trading model. Making use of my data science knowledge, I mined data from PDF reports published by the National Stock Exchange to collect data about the changes in the Indian Banking Sector, and then used trends from this data to suggest a possible trading strategy.

Animal Shelter, Noida — Volunteer

Created a cloud based OCR solution in Python for Animal Shelter Sector 94 Noida in order to digitize records for the organization. This allowed them to store the relevant information in a Google sheet simply by taking a picture of documents like blood test reports.

SHEOWS, New Delhi — Volunteer

Used my web development knowledge to substitute their local spreadsheet-based system for a MySQL database that I hosted on Heroku – a cloud service. Improved the efficiency of their data entry process, eliminating the process of physical transfer of documents.

IRIS Science Fair 2020 - ML Researcher

Used a SparkFun sensor array mounted on a helmet to create a solution to detect worker accidents in factories. I then processed the data collected by these sensors to train various machine learning algorithms to predict if the worker is in a dangerous situation based on his/her motion.

EDUCATION

Delhi Public School R. K. Puram, Grade 12 CBSE

APRIL 2017 - APRIL 2020, DELHI

Currently studying Physics, Mathematics, Chemistry, Computer Science, and English. President, Student Council and Senior Member of Exun Clan (Computer Club), MatSoc (Mathematics Club), French Club and the Physics Society of the school.

Grades

- Grade 12: 98.4 (Predicted)
- Grade 11: 92%
- Grade 10: 98%
- Grade 9: 93.6%

Standardized testing

- ACT – 36 (Composite), scored a perfect score of 36 on all four core sections(English, Mathematics, Reading, and Science)
- SAT Subject Tests – Perfect score of 800 on Mathematics Level 2, Physics and Chemistry
- AP Exam– Scored 5 on four exams (Calculus BC, CS A, Physics C Mechanics, Chemistry)

Courses and Certifications

Stanford Machine Learning Course on Coursera

This course helped me explore the mathematics behind popular machine learning algorithms and gave a base to further explore machine learning.

Deep Learning Specialization by deeplearning.ai on Coursera

Through this series of five courses on Coursera taught by Prof. Andrew Ng, I explored the usage and mathematics behind Neural Networks and Deep Learning.

AWARDS AND HONORS

AP Scholar with Honor Received a perfect score of 5 on four Advanced Placement exams.

National Talent Search Examination Scholarship

2019 Qualified among 2000 students for a lifetime academic scholarship in an exam conducted by the NCERT pan-India across 800,000 students.

Technothon 2018 Won a sponsored trip to NASA as the first prize for Technothon 2018 hosted by Indian Institute of Technology(IIT) Guwahati.

Junior Science Talent Search Examination 2018

Qualified for Scholarship provided the Directorate of Education, Delhi to the top 150 students in Delhi.

DPS SMTE Scholarship 2018 Secured 3rd rank among the top 120 students who qualified 2nd level of DPS SMTE(out of around 28000 students)

SKILLS

Programming - Python, C++, Java

- Used Python for machine learning and development project.
- Used C++ for competitive programming.
- Learnt Java for my AP CS A exam.

Machine Learning- numpy, pandas, sklearn, keras

- Proficient in using numpy and pandas for data analytics and machine learning.
- Used sklearn to train machine learning models.
- Currently learning keras and tensorflow for deep learning.

Web Design - HTML, CSS, JS

- Combined my artistic side with technology to design websites.

Others - Git, MySQL

- Used git to collaborate on projects on GitHub
- Used MySQL to create a digitization solution for SHEOWS, an NGO working for elderlies

Languages

English, Hindi, French, Sindhi