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STUDENT TRANSCRIPT

Official Transcript

School's Name School's Complete Address

Student's Name

Student's Social Security Number\_

Student's Address

Street Address

Apt. #

City

State

Zip

Student's Program Title:

Program Title

Enrollment Date Required Hours Completion Date Hours Completed Final Grade Grade Point Average

Number of Transfer Hours (if applicable)

Transfer Hours Accepted From (Name of School and Address)

in Program/Course(s)

Signature of School Official Official’s Title Date Raised Seal of School

A (Excellent)

B (Above Average)

C (Average)

D (Below Average)

F (Failure)

WP - Withdrew Passing WF - Withdrew Failing Inc. - Incomplete

93%-100% 4.0

85%-92% 3.0

75% - 84% 2.0

70% - 74% 1.0

Any grade falling below the school's graduation requirement of 70% (The above sample grades are aligned with recommendations from national accreditating agencies and various state agencies. It is the responsibility of each school to set their grading policy.)

Sample Student Transcript Form/2004

A question I get asked a lot on my email list is: what is the best programming language for machine learning?

I’ve replied to this question many times now it’s about time to explore this further in a blog post. Ultimately, the programming language you use for machine learning should consider your own requirements and predilections. No one can meaningfully address those concerns for you.

What Languages Are Being Used

Before I give you my opinion, it is good to have  a look around to see what languages and platforms are popular in self-selected communities of data analysis and machine learning professionals.

KDnuggets has had language polls forever. A recent poll is titled “What programming/statistics languages you used for an analytics / data mining / data science work in 2013“. The trends are almost identical to the previous year. The results suggest heavy use of R and Python and SQL for data access. SAS and MATLAB rank higher than I would have expected. I’d expect SAS accounts for larger corporate (Fortune 500) data analysis and MATLAB for engineering, research and student use.

Kaggle offer machine learning competitions and have polled their user base as to the tools and programming languages used by participants in competitions. They posted results in 2011 titledKagglers’ Favorite Tools (also see the forum discussion). The results suggested the abundant use of R. The results also show good use of MATLAB and SAS with much lower Python representation. I can attest that I prefer R over Python for competition work. It just feels though it has more on offer in terms of data analysis and algorithm selection.

Ben Hamner, Kaggle Admin and author of the blog post above on the Kaggle blog goes into more detail on the options when it comes to programming languages for machine learning in a forum post titled “What tools do people generally use to solve problems“.

Ben comments that MATLAB/Octave is a good language for matrix operations and can be good when working with a well defined feature matrix. Python is fragmented by comprehensive and can be very slow unless you drop into C. He prefers Python when not working with a well defined feature matrix and uses Pandas and NLTK. Ben comments that “As a general rule, if it’s found to be interesting for statisticians, it’s been implemented in R” (well said). He also complains about the language itself being ugly and painful to work with. Finally, Ben comments on Julia that doesn’t have much to offer in the way of libraries but is his new favorite language. He comments that it has the conciseness of languages like MATLAB and Python with the speed of C.

Anthony Goldbloom, the CEO of Kaggle gave a presentation to the Bay Area R user group in 2011 on the popularity of R in Kaggle competitions titled Predictive modeling competitions: making data science a sport (see the powerpoint slides). The presentation slides give more detail on the use of programming languages and suggest an Other category that is as close to as large as large as the usage of R. It would be nice to have the raw data that was collected (why didn’t they release it to their own data community, seriously!?).

John Langford on his blog Hunch has an excellent article on the properties of a programming language to consider when working with machine learning algorithms titled “Programming Languages for Machine Learning Implementations“. He divides the properties into concerns of speed and the concerns of programability (programming ease). He points to powerful industry standard implementations of algorithms, all in C and comments that he has not used R or MATLAB (the post was written 8 years ago). Take some time and read some of the comments by academics and industry specialists alike. This is a deep and nuanced problem that really comes down to the specifics of the problem you are solving and the environment in which you are solving it.

Machine Learning Languages

I think of programming languages in the context of the machine learning activities I want to perform.

MATLAB/Octave

I think MATLAB is excellent for representing and working with matrices. As such, I think it’s an excellent language or platform to use when climbing into the linear algebra of a given method. I think it’s suited to learning about algorithms both superficially the first time around and deeply when you are trying to figure something out or go deep into the method. For example, it’s popular in university courses for beginners, like Andrew Ng’s Coursera Machine Learning course.

R

R is a workhorse for statistical analysis and by extension machine learning. Much talk is given to the learning curve, I didn’t really see the problem. It is the platform to use to understand and explore your data using statistical methods and graphs. It has a n enormous number of machine learning algorithms, and advanced implementations too written by the developers of the algorithm.

I think you can explore, model and prototype with R. I think it suits one-off projects with an artefact like a set of predictions, report or research paper. For example, it is the most popular platform for machine learning competitors such as Kaggle.

Python

Python if a popular scientific language and a rising star for machine learning. I’d be surprised if it can take the data analysis mantle from R, but matrix handling in NumPy may challenge MATLAB and communication tools like IPython are very attractive and a step into the future of reproducibility.

I think the SciPy stack for machine learning and data analysis can be used for one-off projects (like papers), and frameworks like scikit-learn may be mature enough to be used in production systems.

Java-family/C-family

Implementing a system that uses machine learning is an engineering challenge like any other. You need good design and developed requirements. Machine learning is algorithms, not magic. When it comes to serious production implementations, you need a robust library or you customize an implementation of the algorithm for your needs.

There are robust libraries, for example Java has Weka and Mahout. Also note that the deeper implementations of core algorithms like regression (LIBLINEAR) and SVM (LIBSVM) are written in C and leveraged by Python and other toolkits. I think you are serious you may prototype in R or Python, but you will implement in a heavier language for reasons such as execution speed and system reliability. For example, the backend of BigML is implemented in Clojure.

Other Concerns

Not a Programmer: If you are not a programmer (or not a confident programmer) I recommend playing machine learning via a GUI interface like Weka.

One Language for Research and Ops: You may want to use the same language for prototyping and for production to reduce risk of not effectively transferring the results.

Pet Language: You may have a pet language of favorite language and want to stick to that. You can implement algorithms yourself or leverage libraries. Most languages have some form of machine learning package, however primitive.

Agreement of Lease

THIS LEASE, made and entered this 10 day of April , 20-16 , by and between:

(hereinafter called "Owner) and Last Name: Cooper , First Name: Alan (hereinafter called "Resident"),

WITNESS THAT:

1.

Lease Term

In consideration of the covenants hereinafter contained on the part of the Resident to be kept and performed,

Owner does hereby lease to resident the house located at 934 Cobblestone Court, Kingston, New York 12401 . The term of this lease

shall commence on the 10 day of April , 20-16 and expire at 12:00 am midnight on the

10 day of April , 20-17.

2.

Rental

Resident shall pay to Owner a total rental of $ 1000 for the full term of this lease. Owner

hereby acknowledges receipt of $ 100 simultaneously with the execution and delivery of this

Lease; which sum shall be applied to the said rental. The remainder of $ 900 shall be paid by

Resident to Owner in 10 equal installments of $ 100 each, due and payable on the first

day of each calendar month throughout the term of this Lease with the first such payment due on 10 day of May,

20-16. Resident shall pay the rent to Owner at 10th Floor, 100 South Main Street, Los Angeles, California 90012 or to such

other address as Owner shall direct from time to time.

3.

Security Deposit

Owner hereby acknowledges receipt from Resident of $ 1000 as security for resident's full and

faithful performance of each and every term, covenant and condition of this Lease. In the event that Resident

shall default in the payment of any installment of rent when due, or shall fail to perform and/or observe any

term/covenant or condition of this Lease on Resident's part to be kept and/or observed, Owner may use, apply

or retain the whole or any part of Resident's security deposit for the payment of any rent and/or additional

rent then or at time thereafter due, or for the satisfaction of other sums which Owner may expend or be

required to expend or incur by reason of Resident's default hereunder, including any expenses incurred in the

reletting of the house.

In the event that Resident shall fully and faithfully comply with all of the terms, provisions, covenants and

conditions of the Lease, the said security deposit (or any balance thereof) shall be returned to Residents

within fourteen (14) days after the expiration of the term of the lease and vacation of the premises by tenant

or after 14 days that the said landlord learns that the premises has been abandoned, and shall provide a

written statement describing the basis for retaining any deposit. The security deposit shall be refunded only if,

(a) a thirty (30) day written notice of intention to vacate is given by Resident to Owner prior to the

expiration of this Lease;

(b) the keys are promptly returned to the Owner; and

(c) the house and its contents are found, upon inspection, to be in good, clean condition with no unusual

ordinary wear and tear expected.

4.

Default

In the event Resident defaults under this Lease and the security deposit does not cover all rent due and all

damages and expenses Owner incurs as a result thereof, including reasonable attorneys' fees, owner shall be

entitled to collect such rent and damages in any lawful manner after providing a statutory 3 day notice for late

rent and a statutory ten day notice for any other breach of contract. Resident covenants and agrees that if

default shall be made in the payment of any installment of rent, or if Resident shall violate any of the terms,

covenants, or conditions of this Lease, then Owner shall be entitled to reenter and retake possession of the

house and recover any and all resulting damages, including all costs and reasonable attorney's fees after a

statutory 3 day notice for late rent and a statutory ten day notice for any other breach of contract. Resident

hereby acknowledges and agrees that in the event any statement made by Resident in the Application For

Lease delivered to Owner in connection with this Lease is subsequently determined to be false, Owner may,

at its election, terminate this Lease after the statutory ten day notice is provided.

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5.

Subordination

This Lease shall be subject and subordinate at all times to the lien of any existing mortgages which may

hereafter become alien on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Resident agrees to promptly execute and return any

instrument evidencing such subordination that Owner may request.

6.

Miscellaneous Provisions

Resident, for themselves, their heirs, legal representative, successors and assigns, hereby covenant and agree

that:

a) Resident shall pay all utilities, except water during the four consecutive months of June through

September. Water bills will be submitted to owner and reimbursed as due.

b)

Parking space is allowed only on above listed property and at Residents own risk. Owner is not and

shall not be deemed to be responsible for any damage to vehicles or to contents which are on the

premises.

c)

Owner is not an insurer of Residents person or personal property. Resident agrees that all of

Resident's personal property in the house or elsewhere shall be at the sole risk of Resident, and that

Resident will carry such insurance as Resident deems necessary therefore. Resident agrees that

Owner, and its partners, agents and employees, shall not be liable for any damage to the person or

property of Resident of any person occupying/visiting the house \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for any

reason whatsoever.

d)

Resident agrees to use the said house solely for the purpose of Resident’s personal residence.

Resident shall not rent, sublet, transfer or assign this lease, or any interest herein, without the prior

written consent of owner, which consent may be granted, withheld, or conditioned in Owner's sole

and complete discretion. Resident agrees to make no unlawful, improper or offensive use of the house

and to quit and deliver up the house and its appliances and equipment at the end of the term of this

Lease in as clean a condition as they were on the date of first possession, ordinary wear and tear

excepted.

e)

Resident agrees to comply with all laws, orders and government regulations which affect the house at

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, as the same may be amended from time to time.

f)

Resident may only keep pets or animals with Owner's Prior Written consent, which consent may be

granted, withheld or conditioned in Owner's sole and complete discretion.

g)

Resident may only paint or make alterations, additions or improvements to the house with Owner's

prior written consent, which consent may be granted, withheld or conditioned in Owner's sole and

complete discretion.

h)

Owner or any of its agents shall have the right to enter the house during all reasonable hours to make

inspections, repairs, additions, or alterations as may be deemed reasonable necessary for the safety,

comfort or preservation thereof, or of the building after providing a statutory two day notice.

However, owner or any of its agents may enter the house at any time for emergency repairs necessary

for the protection of any person.

i)

Motorcycles, campers, trucks, boats and boat trailers, and commercial vehicles are not permitted at

the house of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, without Owner's prior written consent, which consent

may be granted, withheld or conditioned in Owner's sole and complete discretion.

j)

The house shall be occupied only by the undersigned Resident and those people listed on the

approved Application For Lease, which is incorporated herein by this reference.

k)

Waterbeds are strictly prohibited without Owner's prior written consent, which consent may be

granted, withheld or conditioned in Owner's sole and complete discretion.

l)

Carports and garages may be used for storage of vehicles and other miscellaneous items specifically

approved in writing by Owner.

m) Outdoor storage structures are strictly prohibited.

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n)

No more than four vehicles are permissible on the said property and are not permitted to be parked on

any yard or along the side of the garage or parked in the street.

o)

If any provisions of this Lease, or the application of any provision of this Lease to any person or

circumstances shall be invalid or unenforceable to any extent, the remainder of the Lease, or the

application of such provision to persons or circumstances other than those to which it is invalid or

unenforceable, shall not be affected thereby; and each provision of their Lease shall be valid and

enforced to the fullest extent permitted by law.

p)

Resident has examined the house before signing this Lease and agrees that the premises and the rooms

of the house and all appliances furnished are in good and satisfactory condition. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

initials of Resident

q)

A late fee of $ 10 will be assessed if rent has not been paid by the 5th day of each

calendar month, plus an additional late fee equal to $ 1 per day shall be assessed

for each day after the 5th day following the rental due date with such rent remains unpaid.

Notwithstanding the foregoing, the rent is due on the 1st day of each calendar month, and Resident

shall be deemed to be, at the election of Owner, in default of this Lease if the rent is not paid by the

1st day of each calendar month.

r)

In addition to any late fees which may be due, a fee of $ 10 will be assessed if

Resident tenders a check to Owner that is returned to Owner for "insufficient funds" or on a closed

account.

s)

A fee of $59.00 shall be payable by Resident to Owner to defray the cost of cleaning the carpet in the

house after Resident vacates the same. Such fee shall be delivered by Resident to Owner at the time

Resident delivers his notice of intention to vacate the house.

t)

Resident has been shown the location of all smoke alarms in said house. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ initials

of Resident. Resident shall be required to maintain all smoke alarms according to manufacturers

specifications and Owner shall not be responsible for any negligence of Resident that results in

damage of Owners property or the personal property of Resident, Resident’s family or any of the

Resident’s guests.

u)

In addition to stated provisions, no smoking and drug activity is permitted inside of residence.

v)

Should any action of contest by resident or leasor that may lead to arbitration or legal action, Owner

will not be liable for any court fees and will be paid of any monetary lost and/or damaged from court

appearances and arbitration expenses.

IN WITNESS WHEREOF, the parties hereto have executed this Lease in several counterparts, each of which shall be

deemed an original, as of the day, month, and year first above written.

RESIDENT

OWNER

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date 10/April/2016

Date 10/April/2016

Print Name Alan Cooper