STATEMENT OF PURPOSE

I’ve always been good at math and logic - I did well in the school Olympiads, NTSE or any other similar exams - my strong point has always been the GMAT section. I, as a matter of fact, got 4th internationally in the IRAO, in 11th grade. I have also given the MENSA test and am eligible to get into MENSA with a score above 98 percentile, which talks well about my logical aptitude.

Mathematics has always fascinated me and I have always tried to be up to date with mathematics through numerous internet sources (like numberphile). I believe that I have a very strong grasp on the aspects of mathematics that require logic - like linear algebra, probability, and combinatorics. In addition to that, coding has always been my strong point and I have taken part in various school level tournaments (hackathons and codewars), winning a lot of them, including HP codewars Bangalore 2018.

‘Intelligent beings’ has given me the opportunity to combine my logic and mathematics with something that is extremely relevant in today’s world - AI and data science. I believe that this opportunity will let me develop a deeper understanding of the same. Data science is one of the emerging fields in today’s world, having the most interesting jobs (which are well paying too). I also believe that learning AI, in an organized well-structured manner would help me develop more projects in a productive way that would be a great start to my AI journey.

Instances

The few instances, where I felt my logic was good, are

* when I solved my first 3D maze solving question (with random starts and ends, and the cells being weighted),
* when I solved the NMTC paper and almost got everything (didn’t write the second stage or RMO (because of school) so yeah…),
* when my codewars team and I solved the Houston paper of codewars 2017(supposed to be the hardest high school codewars) (during our practices) and beat the team with the highest score,
* when I got 4th international rank in IRAO,
* when I got the circuit for my XLR-8 bot right in the first try of making it (felt like an achievement at that point) and
* , for the final instance, when I got my MENSA result.

Improvements

The project can be designed such that numerical expression can also be learned by the intelligent beings (like basic addition and multiplication functions could be performed by it). The intelligent being can be made to understand patterns with numbers and asked to predict another number on the basis of the input (E.g.: - 2 maps to, 3 to 6 and therefore the compiler should be able to predict 5 goes to 10).

Git Hub handle:- <https://github.com/dev9318>