Madhav Shekhar Sharma

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Github : https://www.github.com/PseudoCodeNerd

EDUCATION

Delhi Public School R. K. Puram, New Delhi
Grade 11, English, Mathematics, Physics, Chemistry, Computer Science
Expected May, 2021

St. Xavier's School , Delhi
Grade 10 (Secondary Examination), CBSE
March 2019 Aggregate 96.2%

Stanford University, Stanford (CA)
Pre-Collegiate Program, Artificial Intelligence for Robots
July 2019

TECHNICAL SKILLS

Languages : Python, Java, Mathematica
Tools/Framework : NumPy, SciPy, Scikit-Learn, Pandas, OpenCV, Keras, Pytorch, fastAI, TensorFlow
Familiar : Matlab, C++, ReactJS, Kotlin, LaTeX
Proficient in Machine Learning and Deep Learning skills for multiple applications and also responsive Web Design .

PROJECTS

Stroke Prediction using RACE Scale and EEG **Jun 2019**

The aim of this study was to evaluate the usefulness of incorporating clinical and EEG variables to improve pre-hospital stroke prediction. A model predictive of stroke incidence was also developed with a test set AUC of .775. A logistic regression model was used to examine the relationships between given measures and the incidence of stroke. An interaction of RACE and age was included in the model.
Odds ratios and 95% confidence intervals were computed as measures of association from the logistic models.

- **Technology/Tools:** Python, Scikit-learn, Pandas, Logistic Regression, NumPy

Smart and Efficient Maze Solving Robot using Image Processing and Graph Theory Algorithms **Jul - Aug 2019**

The image of the line maze would be captured by a camera and sent to the computer to be analyzed and processed by a program developed using Visual C++ and OpenCV libraries and based on graph theory algorithms. The final results were compared as I implemented many algorithms such as Breadth First Search, Best First Search, A* and Flood Fill Algorithms. The proposed method can allow the maze solving robot to avoid trapping and falling in infinity loops.

- **Technology/Tools:** Python, Arduino, OpenCV

CERTIFICATIONS

• **Machine Learning** by Stanford University on *Coursera*
Verify : coursera.org/account/accomplishments/certificate/KU2WNTTUDPEF
• ***Neural Networks and Deep Learning*** *by deeplearning.ai on Coursera*
Verify : coursera.org/account/accomplishments/certificate/PC3PSVRVQW74
• ***Introduction to Mathematical Thinking*** *by Stanford University on Coursera*
Verify : coursera.org/account/accomplishments/certificate/N3U3X2RPYENK
• ***Machine Learning: Regression*** *by University of Washington on Coursera*
Verify : coursera.org/account/accomplishments/verify/76FQWBEK3GKK
• ***Mathematics for Machine Learning*** *by Imperial Collge on Coursera*
Verify : coursera.org/account/accomplishments/verify/PFMS2NBWC79Y

• ***Machine Learning Foundations: A Case Study Approach*** *by University of Washington on Coursera*
Verify : coursera.org/account/accomplishments/certificate/X8FGHE4BY9P2
• ***6.00.1x: Introduction to Computer Science and Programming Using Python*** *by MITx on edX*
Verify : courses.edx.org/certificates/a58a0b7523f84a9dbea0e1830a80116d

ADDITIONAL ACTIVITIES

• Member of The Junior Academy, The New York Academy of Sciences
• Member of Quizzing Club, DPS RK Puram
• Technical Specialist, TEDxDPSRKPuram
• Member: Student Council, DPS RK Puram
• Founder of UPscale and DiodeCode
• CTO at Zytab Inc. (Conrad Challenge Finalists)