HARSHIT GUPTA

ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	M.Tech in Computer Technology	Indian Institute of Technology, Delhi	8.935
2012	Intermediate (UP Board)	S D Inter College, Sadar, Meerut	82.2%
2010	High School (UP Board)	S D Inter College, Sadar, Meerut	76.5%

DEGREES PRIOR TO IIT

Year	Degree	Institute	GPA / Marks(%)
2017	B.E. in Electrical Engineering	PEC University of Technology, Sec-12, Chandigarh	8.50

INTERNSHIPS

- **Bhakra Beas Management Board (B.B.M.B.), Chandigarh** (Jan, 2016 - May, 2016): Industrial Training
- **American Express, Gurgaon** (June, 2016 - July, 2016): Collaboration Tool on SharePoint & Strategic Framework
- **Greymeter.com, Noida** (June, 2015 - August, 2015): Research and Development Intern

SCHOLASTIC ACHIEVEMENTS

- **GATE 2017:** Secured a rank of **445** out of 1,17,443 students.
- Among **Top 1%** in class XII board examination and Received **INSPIRE Scholarship** From DST, **Govt. of India** in 2012.

IIT DELHI THESIS

Title: Schlumberger Project, Machine Learning based oil-wells and horizon detection in 3D Seismic data
Supervisor: Dr. Seshan Srirangarajan, Professor, Indian Institute of Technology, Delhi
Description: Developing and applying machine learning and image processing techniques to seismic data from the oil industry

PROJECTS

- **Samsung IoT Project - Smart Home with connected devices (ELV780) (Dinesh Kumar, Senior Chief Engineer at Samsung R&D Institute - Delhi)** (Jan, 2018- April, 2018) :
  - The objective of this project was to create an interaction between various smart connected devices whose states can be changed based on different situations/scenes.

- **Using ML to classify IoT Algorithms (Prof. Ranjan Bose)** (Aug, 2017 - Nov, 2017) :
  - To classify IoT device Algorithms on Edge, Fog and Cloud based on different parameters like computational cost requirement, response time, storage type and available resources

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- **Real-time extraction of moving object in a video using GMM** (Jan, 2018 - Feb, 2018): **Tools used**: Python, OpenCV
- **Face Classification** (Feb, 2018 - March, 2018) : **Tools used**: Python3, OpenCV3.2, PCA, Fisher Linear discriminant
- **Supervised classification for Genomic Sequence** (March, 2018- Apr, 2018) : **Tools used**: Python3, SVM

- **Shell utility** (Jan, 2018 - Feb, 2018): Implemented a command interpreter like CMD/terminal in C.
- **FTP Application** (Feb, 2018 - March, 2018): Implemented a File Transfer Protocol in C++ using sockets.
- **CPU Scheduling** (March, 2018- Apr, 2018): Simulation of CPU scheduling Algorithms in C for Linux.

- **Self-Projects**:
  - **Function Approximation** : Function approximation using counter propagation neural network (CPNN) in MATLAB.
  - **Python-Based Arcade Game (NumGun)**: Made a single player infinite mode game using Pygame library.
  - **Multiplayer Game**: A snake game, which can be played by more than two players, connected to same Network.

TECHNICAL SKILLS

- **Languages**: C/C++, Python 2.7/3.6, VHDL, MATLAB
- **Software and Tools**: TensorFlow, Keras, OpenCV, Pygame, LaTeX, Adobe Photoshop CC, MS Office, LibreOffice

EXTRA CURRICULAR ACTIVITIES

- **Brand Ambassador, NIIT.tv** (October, 2015 - August, 2016): Connected learners digitally to niit.tv which is an online learning portal to support skill India mission.
- **Electrical representative, Global Annual Alumni Meet** (Aug, 2015- May, 2016)
- **Sports**: Won Third prize in **Table Tennis** Championship at college level.