n **Dokania**

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Education

Delhi Technological University(Formerely DCE)

B.Tech. IN MATHEMATICS AND COMPUTING ENGINEERING

New Delhi, India

Aug. 2013 - PRESENT

North Delhi Public School

New Delhi. India

AISSCE (ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION)

Apr. 2011- May. 2013

Skills

Programming Python, C++, C, Java, MySQL, JavaScript, Shell, MATLAB, LaTeX, HTML

Frameworks & Libraries Django, Flask, Theano, OpenCV, Keras, Numpy, Scipy, Play Framework, OpenGL

Familiar C#, Node.js, Android, MongoDB, Unity3D, Lua

Experience _____

Evolutionary Computing and Research Lab, DTU

New Delhi, India

Undergraduate Researcher

Sept. 2015 - PRESENT

- · Studied various evolutionary optimization algorithms and their implementation on multi-dimensional objective functions.
- · Working on development of new and robust algorithms for global optimizations in multi-dimensional search space.

Greplr New Delhi. India

CO-FOUNDER & FULL STACK DEVELOPER

May. 2015 - PRESENT

- Developed a hyper-local discovery platform and service aggregation application.
- Built REST APIs to support android application using Flask(Python Framework) and Parse for DataBase backend and analytics.

Omnipresent Robot Tech.

New Delhi, India

SOFTWARE ENGINEERING INTERN

July. 2015 - Aug. 2015

- Built a cross-platform application called speedobitiX using Ot Framework for Python.
- Application enables students to build robots without writing code and graphical logic controls.

Projects

RNN and LSTM based Text Generation

New Delhi, India

MACHINE LEARNING, NATURAL LANGUAGE

Nov. 2015 - Dec. 2015

- · Created a Neural Network model based on RNNs and LSTMs to understand a given text and based on the text pattern, produce small sentences.
- · Written in Python using Keras and Theano Libraries. Deployed on a VPS with logging to monitor progress.

Genetic Evolution in Game Playing Bots

New Delhi, India

EVOLUTIONARY ALGORITHMS, GAME THEORY, NEURAL NETWORKS

Sept. 2015 - Oct. 2015

- Created a Genetic Evolution based Tic-Tac-Toe playing bot which evolves on the principle of natural selection.
- Built Using Python and Numpy library. Learned about evolutionary algorithms and role of genetic programming in optimizations.

Food Requirement Simulation and Prediction

New Delhi, India

DATA SCIENCE, SERVER

Oct. 2015

- · Developed a web dashboard to display structured data for food consumption and wastage for the NGO Akshaya Patra.
- · Food requirement predictions were made using previous student attendance data based on a Simple Regression model.
- · Also built a server in Django(Python Framework) to provide API for Database access and Predictions. The prototype won the Grand Prize award at CodeForIndia 2015 Hackathon.

Autonomous Robot Navigation System Using Kinect

New Delhi, India

COMPUTER VISION, EMBEDDED SYSTEMS

Mar. 2015 - May 2015

- Built an autonomous robot and designed it's obstacle avoidance and navigation system using OpenCV Python library.
- Analyzed performance results on different development boards (Raspberry Pi, BeagleBone Black etc.) by running the python scripts and optimizing computations for better performance.
- Used Depth maps and pixel intensity calibrations to compute distance of multiple obstacles and calculate a feasible path.

Honors & Awards

Oct. 2015 Grand Prize Winner , Code For India Hackathon	New Delhi, India
July 2015 Grand Prize Winner , HackIndia 2015	Bangalore, India
Apr. 2015 1st in Track , PolicyHacks by EPoD, Harvard University	New Delhi, India
Mar. 2015 3rd Position , 2015 by 91SpringBoards and IBM Bluemix	New Delhi, India
Mar. 2015 Special Mention , Byldathon at IIIT Delhi	New Delhi, India
Oct. 2013 Best Student Award, The Times of India(TOI)	New Delhi, India
Aug. 2010 2nd in State . National Science Talent Search Examination	New Delhi. India