

Shubham Dokania

SOFTWARE DEVELOPER · FULL STACK DEVELOPER

WP-42 C, Pitampura, New Delhi, India

☎ (+91) 8860702606 | ✉ shubham.k.dokania@gmail.com | 🌐 http://shubhamdokania.me | 📱 shubham1810 | 🌐 shubhamdokania

Education

Delhi Technological University (Formerly DCE)

B.TECH. IN MATHEMATICS AND COMPUTING ENGINEERING

New Delhi, India

Aug. 2013 - PRESENT

North Delhi Public School

AISSCE (ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION)

New Delhi, India

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

UNDERGRADUATE RESEARCHER

New Delhi, India

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

Co-FOUNDER & FULL STACK DEVELOPER

New Delhi, India

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.

SOFTWARE ENGINEERING INTERN

New Delhi, India

July. 2015 - Aug. 2015

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

Projects

RNN and LSTM based Text Generation

MACHINE LEARNING, NATURAL LANGUAGE

New Delhi, India

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

EVOLUTIONARY ALGORITHMS, GAME THEORY, NEURAL NETWORKS

New Delhi, India

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

DATA SCIENCE, SERVER

New Delhi, India

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 its 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**, </geekfest> 2015 by 91SpringBoards and IBM Bluemix

New Delhi, India

Mar. 2015 **Special Mention**, Byldathon at IIT 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