Divyanshu Kalra
Engineering Undergraduate

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INTERNSHIP EXPERIENCE

Machine Learning
Paytm

06/2017 – 07/2017

Tasks/Achievements
- Worked on a neural net - algo hybrid model, that compared 2 names and outputted if they are the same name (for user verification). The final accuracy of the model was 99.03%.

Automatic API Testing
Paytm

06/2016 – 07/2016   *Noida, India*

Tasks/Achievements
- Created "API Test Suite" using Python's pandas, requests libraries.
- Automated testing of deployed API's and compare them to their local counterparts.
- Made the interfacing of multiple API's faster and easier.

Web Scrapping/ Web Development
iMedicalHub

06/2016 – 08/2016   *Gurugram, India*

Tasks/Achievements
- Used python's Selenium and DryScrape libraries to scrape data of doctors, hospitals etc.
- Used node.js, socket.io and PHP to create a real time notification system.
- Removed API security holes by implementing pbkdf2 to store passwords and using OAuth2.0 protocol for communication.
- Created a real time admin chat application that lets user chat with admin, and get support.

Android App Development
ParkZap

01/2017 – 02/2017   *Delhi, India*

Tasks/Achievements
- Created an OCR application to detect number plates using Google's Android Vision.
- Created a graphical dashboard using Graphana to monitor system stats via Collectd and InfluxDB.

Web Development
Grand Electronics

02/2017 – 05/2017   *Delhi, India*

Tasks/Achievements
- Used CSS, HTML5, PHP and MySQL to create the company website.
- Created an anti-piracy technology using 64 bit unique code that helped the company fight piracy of their products.

EDUCATION

B.E. in Instrumentation and Control | 64%
Netaji Subhash Institute Of Technology

08/2014 – 05/2017

Class XII | C.B.S.E | 94.2%
Mata Jai Kaur Public School, Delhi

SKILLS & COMPETENCES

Python   C/C++   Machine Learning   PHP/HTML5/CSS   Node.js   JavaScript/jQuery   MySQL/InfluxDB   Apache Kafka   MATLAB   Arduino   Raspberry PI

RESEARCH PAPERS

Advances in Keystroke dynamics: 2005 - 2016 (IEEE | IndiaComm Conf 2016) (10/2016 – 12/2016)
A survey of all the techniques used in Keystroke Analysis for user authentication in the time period 2005-2016.

GA-NN-KSA: Genetic Algorithm Optimized Neural Network for Keystroke Analysis (Unpublished) (12/2016 – 05/2017)
A research paper that focuses on improving keystroke analysis techniques using neural network optimised by GA. Achieved an EER of 1.49 which is much better than the current best 3.5.

Classifier Dependent Dimensionality Reduction For Resource Restricted Environments (Springer | Redset Conf 2017) (12/2016 – 05/2017)
A research paper that uses neural network and GA to reduce the dimensionality of large dataset according to the needs of the classifier.

PERSONAL PROJECTS

Sentiment analyser (Python3, TensorFlow, Word2Vec) (06/2016 – 07/2016)
- Uses Python's Gensim Word2Vec library to map all the words in a tweet as a vector.
- Analyses the vectors using a 3 layer deep neural net constructed with TensorFlow to detects if the tweet is positive or negative.

KafkaEncryptedChat (Python3, Apache Kafka) (09/2017)
- An end to end encrypted, scalable chat app written in python using tkinter. The backend used was Apache Kafka.

Freelancer, ZakiMonkey (03/2015 – 05/2016)
- A website to create customisable t-shirts. (Google PageTest tools score : 91/100)
- Backend: PHP, MySQL.
- Frontend: AJAX, jQuery, JavaScript, HTML5 and CSS3.

Home Automation (Python3, Raspberry Pi, Arduino) (01/2016 – 02/2016)
- An android app which allows the user to control devices in his house.
- Using voice control, via Natural Language Processing (wit.ai API).
- The central server was written in Flask for Python3.5.

COMPETITIONS

GreyOrange's GOAL 2k16
Won the first prize in GreyOrange's GOAL 2k16 (Phase -1).

Hackathons
Participated in Buildathon 2k15 , AngelHack 2k15, Esya Hackathon 2k15 and HackDelhi 2k15