Chaitanya Bapat

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https://chaibapchya.github.io

EDUCATION

Sardar Patel Institute of Technology, University of Mumbai, India   **Expected May 2017**

Candidate for Bachelor of Engineering in Computers with *Distinction* (C.G.P.A. 8.36/10) in the first seven semesters.

PROFESSIONAL EXPERIENCE

Nexchanges Marketplace Private Limited, Mumbai   **May 2016 - Present**

Data Scientist (Intern and Co-op)- Technical Department

Data Extraction

- Spearheaded the Data Extraction team implementing 10 Web Scrapers hosted on Scrapy Cloud that extracted more than 1 million data records from 7 online real-estate platforms across a period of 2 months

Data Visualization

- Designed the Dashboards that provided insights on Key Performance Indicator of the business and helped improve the market and sales by 20% growth Month over Month

MatriCS Infoweb Solutions India LLP, Mumbai   **April 2016 – May 2016**

Research Intern

Data Discovery and Mapping

- Explored more than 30 online fitness platforms to retrieve 350+ unique marathons in India for the year 2016

Quickwork Technologies Private Limited, Mumbai   **May 2015 – December 2015**

Software Developer Intern- Engineering Department

Quickwork Technologies, previously Aaspass Jobs, is a technology startup that aims to solve India's employ-ability problem especially for manual laborers jobs by powering technology for performance measurement and career mentoring

Sardar Patel Institute of Technology, Mumbai   **Jan 2016 – December 2016**

Undergraduate Teaching Assistant

- Teaching Assistant, under Principal Dr.Gharpure for two semesters for Structured Programming Approach (C language) and Object Oriented Programming Methodology (JAVA language) to **120 students**

ACADEMIC PROJECTS

Comparative study of Containerized Analytics (Pachyderm) vs Traditional Analytics (Apache Spark)

- Deployed Pachyderm cluster on Amazon Web Service Elastic Cloud Compute engine
- Formulated the Pachyderm pipelines for analytical computations in Python
- Achieved 30% reduction in analysis time as compared to computations experimented in Apache Spark

Raspberry Pi Based Smart Lock Security

- Designing the Smart Lock using the Raspberry Pi 3 Model B, a credit-card sized computer for a secure locking system.
- Re-engineering BLE protocol to mitigate the vulnerabilities like Man-in-the-Middle attack.
- Integrating Cryptography and Steganography for a higher level of security in Smart Locks.

Skin Image Recognition using RGB, HSV, YCbCr models

- Designed an algorithm to identify skin pixel from non-skin pixel using the RGB, HSV, YcbCr models with 93% accuracy
- Applied Machine Learning concept of regression for skin image data set training
- Paper accepted by International Conference on Communication and Signal Processing (ICCASP) published in Springer-Atlantis "AISR(ISSN 1951-6851)" book series. **ISBN**: 978-94-6252-305-0 **doi**:10.2991/iccasp-16.2017.51

SOFTWARE SKILLS

- <u>Programming Languages</u>: C, C++, Java, SQL, Python
- <u>Big Data frameworks</u> : Hadoop, Apache Spark, Pachyderm, IBM Netezza
- <u>Design and Simulation Software</u>: MATLAB, Scilab
- <u>Data Visualization Software</u>: D3.js, R, Tableau
- <u>Databases</u> : MySQL, Oracle SQL, MongoDB
- <u>Web Technologies</u>: Javascript, PHP7, HTML5, CSS3

LEADERSHIP

- Secretary, Computer Society of India S.P.I.T. chapter, 2015.
- Vice President, Rotaract Club of Mumbai Parleshwar, 2014.

EXTRA-CURRICULAR ACTIVITIES

- Completed Level 2 Spanish Language Examination under Spain's Foreign Education Ministry – , 2013
- Special Mention award at Mumbai Model United Nations conference, 2014