

ABHINANDAN DUBEY

SOFTWARE DEVELOPER | DATA SCIENTIST

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HackerRank : <https://www.hackerrank.com/alivcor> | GitHub : <https://www.github.com/alivcor>

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EDUCATION

Stony Brook University - MS in Computer Science

Dec. 2017

Courses : Computer Vision, Analysis of Algorithms, Artificial Intelligence, Big Data Analytics, Natural Language Processing, Visualization & Visual Analytics, Fundamentals of Computer Networks.

New York, USA

Birla Institute of Applied Sciences - B.Tech. (Honors) in Computer Science & Engineering

2012-16

Uttarakhand Technical University | **First Division with Honors, College Topper**

Nainital, India

RESEARCH EXPERIENCE

Graduate Student Researcher | [Human Interaction Lab](#) | Stony Brook University

Spring 2017

- Working on "Using Weakly Supervised Segmentation Methods for Fetching Insights from Biological Cell Division Process"

Innovator | [Innovating For Billions - REDx](#) | MIT Media Lab

January 2016

Research Publications

- CNN Based Yeast Cell Segmentation in Multi-Modal Fluorescent Microscopy Data
CVMI - Proceedings of IEEE Conference on Computer Vision & Pattern Recognition (CVPR).
- Classification of CKD Cases Using MultiVariate K-Means Clustering
International Journal of Scientific & Research Publications - Volume 5, Issue 8
- [A Simplified Analysis To a Generalized Restricted Partition Problem](#)
PRINCIPIA - Princeton Undergraduate Maths Journal, Princeton University

Spring 2017

Fall 2015

Winter 2015

WORK EXPERIENCE

Summer Analyst Intern (Risk Technology) | Nomura America Services, New York City

Jun - Aug 2017

- Developing modules that allow processing & seamless translation b/w in-memory DataFrames to Parquet Hadoop ecosystem
- Modules for processing of data streams in memory through the Data Access Layer. Also developing a dashboard that allows monitoring of the data processing requests, data viewer and drill downs, and batch processes.
- Working on POCs to evaluate technologies for low latency data provisioning.

PROJECTS

More on [GitHub](#)

DeepScore & UnTraSE : A Two-Fold Exploratory Study on AES

A state-of-the-art research on trait-specific automated essay grading using deep learning, LSTMs, and unsupervised approaches.

[AlexaFitnessPal](#) - *Winner at Hack@CEWIT 2017*

An IoT & Microservices device with H/W sensors running Machine Learning & Vision algorithms to track activities.

Mosaicing of Aerial Images - Estimating transformations from the image points

A system that maps the correspondences in two images, warps and merges images into a mosaic which provides a larger FOV.

The Freefinity Project - Spatio-Temporal Analysis of NYC Cab Services Using Spark & Apache Hadoop

Analysing commuting patterns in urban communities, and extracting useful insights from NYC cab system (*Ongoing*)

Scene Classification Using VGG16 and Logistic Regression CNN

Implemented CNN which extracts features from VGG16 Network and predicts the background scene with an accuracy of 81%

Sentiment Analysis Using Amazon EMR (Elastic MapReduce) & Spark

Built a program that runs over terabytes of data contains more than 1.72 billion web pages using Spark & Apache Hadoop.

TECHNICAL STRENGTHS

Proficient Python, Java, C, PHP, HTML, JavaScript, CSS, SQL, AJAX, D3

Prior-Exp VB, C++, C#, .NET, L^AT_EX, Bootstrap3, CodeIgniter, Smarty, Android, MongoDB, Flask

Tools MATLAB, TensorFlow, OpenCV, MapReduce, PyCharm, Visual Studio, Eclipse, Wireshark, Adobe Photoshop

ACHIEVEMENTS

More on [Webpage](#)

- OpenSource projects include **segraph**-a library for creating graphs from SLIC segments. ([Published on Python Package Index](#))
- Award for Most Original Project - **HackCEWIT IoT Hackathon - 2017** organized by the Center of Excellence in Wireless and Information Technology, Softheon and Major League Hacking.
- 2 Bronze Medals** on HackerRank, currently at **90.34 Percentile** with a Contest Rating of 1833.
- All India Rank - 176** in JEST - Theoretical Computer Science (Joint Entrance Screening Test, 2016)
- Global Rank 69 & All India Rank 18** in HackerRank : Real Data 2016 - Data Science (AI) Contest
- Selected for the prestigious **IIT-Bombay** Research Fellowship Awards, 2015 under Dr. Niranjana Balachandran.
- Selected for **MIT Media Lab** RedX Innovation for Billions Camp 2016 & worked on building an Automated Diagnosis System.
- AMCAT Certified Software Developer - **100%ile** in Quant, **99.99%ile** in Verbal & **97.8%ile** in Programming in AMCAT.
- Awarded *Merit Certificate* from *CBSE* in Information Technology being **All-India Topper** in High School