ABHINANDAN DUBEY

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 $\mathbf{HackerRank}: \ https://www.hackerrank.com/alivcor \mid \mathbf{GitHub}: \ https://www.github.com/alivcor \mid \mathbf{GitHub}: \$

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EDUCATION

Stony Brook University - MS in Computer Science Courses : Computer Vision, Analysis of Algorithms, Artificial Intelligence, Big Data Analytics, Natural Language Processing,	Dec. 2017
Visualization & Visual Analytics, Data Science. GPA : 3.43 Specialization : Computer Vision	New York, USA
Birla Institute of Applied Sciences - B.Tech. (Honors) in Computer Science & Engineering Uttarakhand Technical University First Division with Honors, College Topper	2012-16 Nainital, India
RESEARCH EXPERIENCE	
Graduate Student Researcher Human Interaction Lab Stony Brook University	Spring 2017
• Worked on developing ML-based segmentation algorithms for Biomedical data	
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). 	Spring 2017
Classification of CKD Cases Using MultiVariate K-Means Clustering International Journal of Scientific & Research Publications - Volume 5, Issue 8	Fall 2015
• A Simplified Analysis To a Generalized Restricted Partition Problem PRINCIPIA - Princeton Undergraduate Maths Journal, Princeton University	Winter 2015
WORK EXPERIENCE	
Software Developer Nomura Securities, New York City Risk Technology - Risk Datawarehouse Data Management	Feb 2018 - Present
 Integrated Spark & Hive into existing data virtualization layer to optimize query performance signific Developed PARSEC (PARquet-based Refreshing Streaming Cache) - a schema-safe CDC solution based tecture using Kafka, Parquet & Spark. Also developed a Spark custom Datasource adapter. (Built in Developed a module using Spark's MLLib which runs K-Means and SOM (Self-Organizing Maps) from ThriftServer for outlier-detection in Historical (Timeseries) Market Data. (Built in Java) 	d on lambda archi- n <i>Scala)</i>
Summer Analyst Intern Nomura Securities, New York City Risk Technology - Risk Datawarehouse Data Management	Jun - Aug 2017
 Developed a bespoke TeaToken Authenticator & Jupyter Notebook Extension (megaclite) for Resource Developed a Lineage Tracking Tool using Flask & D3js, also migrated the team from SVN to GitLab. 	Management.
PROJECTS	More on GitHub
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 prov Video Thread Background Scene Classification with VGG16 Features Using Convolutional Ne Implemented CNN which extracts features from VGG16 Network and predicts the background scene with a	eural Networks
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 unsupe	·
AlexaFitnessPal - Winner at Hack@CEWIT 2017 An IoT & Microservices device with H/W sensors running Machine Learning & Vision algorithms to track a	activities.
TECHNICAL STRENGTHS	
Proficient Prior-Exp ToolsPython, Scala, C++, PHP, Bootstrap3, HTML, JavaScript, CSS, SQL, AJAX, D3js Java, React, NodeJS, VB, .NET, IATEX, CodeIgniter, Play Framework, Flask OpenCV, TensorFlow, Hadoop, Spark & MapReduce, MATLAB	
ACHIEVEMENTS	More on Webpage
	More on webpage
• OpenSource projects include segraph-a library for creating graphs from SLIC segments.(Published on Pyth	

- 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. Niranjan 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 in AMCAT.
- Awarded Merit Certificate from CBSE in Information Technology being All-India Topper in High School