ANAMIKA SHARAF

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EDUCATION

SAN JOSE STATE UNIVERSITY — San Jose, California

Master of Science (MS) in Computer Science — *Aug 2016 - May 2018 (expected)*

• *Graduate Coursework*: Topics in Artificial Intelligence, Big Data Analysis, Bioinformatics, Computer Creativity via AI, Object Oriented Analysis, Advanced Computer Architecture, Advanced Parallel Processing, Neuro Feedback Systems Studies. MS Project: Modeling Brain Waves as Mandala Artwork with an Electroencephalogram (EEG) device

• GPA – 3.63/4.00

NMAM INSTITUTE OF TECHNOLOGY — Nitte, India

Bachelor of Engineering in Computer Science and Engineering — *Aug 2008 - June 2012*

• *Undergraduate Relevant Coursework*: C Programming, Data Structures, Logic Design, Object Oriented Programming, Design and Analysis of Algorithms, Software Engineering, Microprocessor & Peripherals, Operating Systems, Java & Internet Technologies, Computer Networks, C# Programming and Design Patterns

• CGPA: 8.54/10.00

WORK EXPERIENCE

HCL TECHNOLOGIES LTD — Bengaluru, India

Software Engineer — *Aug 2012 – Jan 2015*

- Client: Juniper Networks | Upgraded router's web pages from extjs 2.2 to 4.2 version | Fixed UI, functionality, browsers and backend related issues | Carried out white and black box testing of pages across modern browsers and their different versions
- Client: Veeco | Carried out data cleaning | Built desktop installation using XML and MS Access database with C#

TECHNICAL SKILLS: Python, Java, Apache Hadoop, Apache Spark, Apache Kafka, MapReduce, MuseIO, Processing, JavaScript

GRADUATE RESEARCH

Mandala Generation: Connecting Neuro feedback with artwork with Dr. Ackerman and Dr. Heller — *Feb 2017- ongoing*

- Reading different brainwaves with EEG inference device(Muse) to create Mandala (Tibetan artwork) for healing and relaxation
- Tools: Processing, MuseIO

Draw My Emotion: Generating Visual Artwork via Sentiment Analysis with Dr. Ackerman — *Sep - Dec 2016*

- Analyzed sentiments in incoming tweets, generated mood defining visual artwork based on tweet sentiment
- Tools: Python, Turtle graphics module, Python Imaging Library (PIL) module, Tweepy API; GitHub: goo.gl/Zh3nwY

ACADEMIC PROJECTS

Anomaly Detection: Using MapReduce to detect anomalies in audit log file — *Feb – Mar 2017*

- Used mapper and reducer approach to find anomalies in login data
- Tools: Java (Eclipse IDE), MapReduce; GitHub: https://goo.gl/txwtme

Stock Prices Prediction: Using Apache Spark and Kafka on historical data from Yahoo! Finance — *Mar – Apr 2017*

- Created a streaming data pipeline using Apache Spark and Kafka to predict future stock prices based on historical data
- Tools: Java (Eclipse IDE), Apache Spark and Apache Kafka; GitHub: https://goo.gl/vzUc9I

Cancer Detection: Using Neural Networks and Recursive Feature Elimination — *Jun 2017*

- Used Neural Networks to detect malignant and benign cancer and recursive feature elimination for feature selection
- Tools: Python, Pandas, NumPy; GitHub: https://goo.gl/vEHZcH

Amino Acid Analysis: Using MapReduce to find out frequency of each amino acid — *Mar 2018*

- Used MapReduce approach to count the frequency of each amino acid present in FASTA file in three different frames
- Tools: Java (Eclipse IDE), MapReduce; GitHub: https://goo.gl/icj1kK

Emoji Bot: Using Sentiment Analysis to predict emotion — *Nov 2016*

- Used sentiment analysis to tweet predicted emotions with Emoji
- Tools: Python, Tweepy API; GitHub: https://goo.gl/w6cYaa