

EDUCATION

GEORGIA STATE UNIVERSITY

M.S. IN COMPUTER SCIENCE

Expected Dec 2017 | Atlanta, GA

HIMACHAL PRADESH UNIVERSITY

B.TECH. IN INFORMATION TECHNOLOGY

Grad. Aug 2014 | Shimla, India

LINKS

LinkedIn:// [ankunix](#)

Github:// [ankush2611](#)

Devpost:// [ankush2611](#)

HackerRank:// [AnkUnix](#)

ResearchGate:// [Ankush_Chauhan](#)

COURSEWORK

GRADUATE

- Machine Learning
- Advanced Data Mining
- Spatial and Scientific Databases
- Advanced Database Systems
- Big Data Programming

UNDERGRADUATE

- Applied Mathematics
- Discrete Mathematics
- Analysis & Design of Algorithm
- Natural Language Processing
- Artificial Intelligence
- Data Warehouse & Data Mining
- Parallel Computing
- Basic Electrical Engineering
- Digital and Data Communication
- Microprocessor, Microcomputers and Interfaces

SKILLS

LANGUAGES

C • C++ • Python • asm 8085 • Bash • R
Octave • MATLAB • Objective-C • Java
Scala • SQL • NoSQL • PostgreSQL
JavaScript • HTML5 • XML/JSON

API / PACKAGES / SERVICES

Scikit-learn • MLlib • PySpark • Pandas
SciPy • NumPy • Keras • Graphlab Create
RaspberryPi / Arduino GPIO • AWS
Google Cloud Platform • Azure • Watson
Hadoop • Spark • MongoDB • Cassandra
Berkeley Data Analytics Stack • H2O
REST • MLaaS • HPC Systems

APPLICATIONS

Jupyter • KNIME • Tableau • vi • Git

EXPERIENCE

FEDERAL HOME LOAN BANK BUSINESS INTELLIGENCE INTERN

January 2017 – April 2017 | Atlanta, GA

- EDW Staging and UAT for BI using financial dataset mappings, while also developed scripts for QA Automation deployed with DBUnit on Java and KNIME.

GEORGIA STATE UNIVERSITY GRADUATE ASSISTANT

January 2016 – Present | Atlanta, GA

- Summer 16-Spring 17 | GRA @ Office of Diversity Education Planning
Personalized dashboards creation, weekly report generation in Google Analytics for user engagement statistics based regression modeling analysis.
- Spring 16 | Graduate Teaching Assistant @ Department of Computer Science

TECH MAHINDRA | AT&T SOFTWARE ENGINEER

November 2014 – December 2015 | New Delhi, India

- Developed automation scripts on RHEL systems using SQL & TeraData encompassing ETL operation plans on SNMP statistics dataset.

PROJECTS

GEORGIA STATE UNIVERSITY January 2016 – Present | Atlanta, GA

- **TIME SERIES DATA MINING FOR SOLAR ACTIVE REGION CLASSIFICATION**
Multivariate time series event classification using selective interpolation techniques for missing signals and other signal preprocessing, using the statistical moment as features, fitted on an ensemble of LR, Naive Bayes, LDA, K-NN classifiers, training and evaluation on NASA's Solar Dataset Observatory's sensor data.
- **HIGH DIMENSIONAL SPATIAL INDEXING USING SPACE-FILLING CURVES**
Reduced disk lookup time on high dimensional point data by indexing database table on spatially indexed by developing algorithms for space-filling curves such as the Hilbert Curve. Experimental testing on point & range query performance metrics on varying dataset point distribution, dimension, and size.
- **COMMUNITY DETECTION ON COMPLEX GRAPH NETWORKS USING APACHE SPARK**
Scalable embedded graph processing of Stanford Network Analysis Platform (SNAP) for Facebook and Twitter datasets, using Neo4j for running graph queries and graph partitioning algorithm via GraphX Pregel API for real-time visualization GraphStream and NetworkX for detected community. Literature review on the cutting edge algorithms of community detection and assimilating edge attributes data.
- **GPS MESSENGER**
Google Cloud based Realtime Android N app integrated on Firebase SDK for providing cloud based location sharing and messaging performed using geospatial KNN queries.
- **Dissonance**
Hands-free music control and DJing app, streaming gyroscope sensor data from JBL headphones, co-occurrence pattern detection of spatial gestures mapped control.
- **BATON - IOS HEALTH TRACKER APP**
FFT based heartbeat detection filtered from the image data of a finger on iPhone's camera and live heartbeat visualization via interfacing Bluetooth LED array on JBL Pulse.
- Collaborative filtering based recommender system on MovieLens dataset using Spark.
- Statistical analysis on Yelp academic dataset with PyMongo and MongoDB.
- Technical presentation on recent advances in spatial big data processing and research.
- Tutorial presentation on the state of the art researches on non-negative sparse PCA techniques and Multivariate Imputation by Chained Equation.

HIMACHAL PRADESH UNIVERSITY August 2010 – July 2014 | India

- **UIIT.KODING**
Open-source online judging system platform with sophisticated layers of operations engaging more than a 1000+ participants in online coding competitions.
- Implemented and designed a RFID based Library Management System.

AWARDS

2016	1st Place	hackGSU Spring / Fall	Baton / Dissonance
2016	Bronze Medal	Machine Learning CodeSprint	Predict Email Open