

# ASHIS KUMAR SAHOO

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## EDUCATION

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**North Carolina State University** - Master of Computer Science AUG 2016 – MAY 2018 (Expected)  
Courses – Data Guided Business Intelligence, Foundations of Data Science, Artificial Intelligence, Advanced Data Structures, Database Management Systems, Algorithms

**VSSUT, Odisha, India** - Bachelor of Technology in Computer Science JUL 2007 – MAY 2011

## RECENT PROJECTS

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**Graduate Student, North Carolina State University** Aug 2016-Present

- **A Comparative Approach to Multi-label Text Classification:** Categorizing news articles into multiple labels using various algorithms such as Binary Relevance, Classifier Chains etc.
- **Recommender System via Graph Embedding:** Using graph embeddings and Word2Vec to create an advanced recommender system for movies.
- **Sentiment Analytics with Supervised Learning:** Implemented sentiment analysis over IMDB movie reviews and Twitter data using machine learning libraries like scikit-learn in Python.
- **Manufacturer Retailer Price Causal Inference:** Analyzing data to find Causal Relationships between attributes using PC and LINGAM algorithms.
- **Music Recommender System:** Developed ALS algorithm based recommender system suggesting artists based on users' play data, using Apache Spark and Python.
- **Twitter Sentiment Analytics:** Implemented basic twitter sentiment analytics based on lists of positive and negative words using Apache Spark Streaming APIs, Kafka and Python.

## PROFESSIONAL EXPERIENCE

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**Tata Consultancy Services Ltd** Kolkata, India  
**IT Analyst** (Full-Stack Developer at Centre of Excellence) OCT 2015 - JUL 2016

- **Enterprise Transport Management Solution:** Designed and Implemented real-time Google maps, dashboards, user reports on J2EE stack with Bootstrap, jQuery. Designed PostGre Database with automatic data archival. Built to scale for 33000+ employees.
- **IOT Middleware Management System:** Conceptualized and Developed real-time visualizations (d3, AJAX), integrated REST services, user experience with Bootstrap and jQuery, implemented user management and authorization.

**Systems Engineer** (Full-Stack Developer at Centre of Excellence) JUL 2011 – SEP 2015

- **Automated Parking Management Solution:** Developed a low cost Digital Signage alternative with Raspberry Pi, real-time dashboards with remote manager on J2EE stack.
- **Building Evacuation Tracking POC:** Implemented a Proof of Concept (POC) to test feasibility of RFID Tags based system for real-time identification and tracking of people during building emergencies.

## RESEARCH PUBLICATIONS

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- **Tabu Search Algorithm for Core Selection in Multicast Routing: IEEE Xplore (CSNT 2011)**  
Developed Simulation and implemented various candidate algorithms, proposed modifications and created setup for comparative testing of the algorithms in C++.

## TECHNICAL SKILLS

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**Expertise:** Java/J2EE Stack, Struts, HTML, CSS, JavaScript, AJAX, jQuery, Bootstrap, SQL (Oracle, Postgres, MySQL), R, Python  
**Also knows:** Apache Spark, C, C++, UNIX/Shell Scripting, Google API, Tomcat, Subversion, Github

## AWARDS AND ACHIEVEMENTS

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- Class Topper at TCS Training period '11 – Hyderabad, India.
- Winner, Paper Presentation, Ideation '15 – TCS Bhubaneswar.
- First Runner Up, C Coding in Samavesh 2009 – VSSUT Burla.
- Finalist, Robocon (India) – International Robotics Contest
- Competent Communicator and Leader – Toastmasters International