# SMIT ANAND

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## Education

**Master in Science | Apr 2016 - May 2018 | North carolina state university, Raleigh, NC, USA**

- Major: Computer Science
- Related coursework: Foundation of Data Science, Advanced Machine Learning, Automated Learning and Data Administration

**Bachelor of techology | Aug 2010 – June 2014 | Institute of technical education and research, Bhubaneswar, India**

- Major: Computer Science and Engineering
- Related coursework: Data Structure, Automata, Operating Systems

## Current Project Work

- **Smit Anand,** using **tensorflow** and **hyperopt** (a hyperparameter optimization tool) to optimize the parameters of some already implemented model. **Advanced Machine Learning** course final project.

- **SLAM**(Simultaneous Localization and Mapping), Using ZED camera, GPS, Lidar, Imu and visual sensors to do autonomous movement of Husky and Micro blimp using occupancy grid matrix obtained by the 3-d mesh created by sensors data.

- **Smit Anand** and Dr. Timothy Menzies. Article: "**Using Machine Translation to Convert Source Code to Pseudo Code"**. Using the implemented work of nmt.hybrid or **LSTM** and Pseudogen for **Neural machine Translation**.

- **Smit Anand** and Prof. John Doyle. Article: "**Using Convolutional Neural Network to analyze sentiment of images or videos**". Using visual sentiment ontology database and caffe as a tool to implement CNN.

- **Smit Anand**, Shama yazdani, Meet Kumar Pandya, Article : "**Using SVM and Convolutional Neural Network for video classification**". Using tensorflow to train CNN model and using Scikit learn to train a SVM classifier for video classification. The training dataset is UCF-101 video dataset.

- **Smit Anand**, Shama Yazdani, Mehnaaz behroozi, Eric Drayyer. Article: "**Sentiment analysis of Amazon product reviews**". Analyzing sentiment of product reviews to give a base to compare the varying sentiments of reviews for different products. Under Dr. Timothy Menzies for Software Engineering project.

## Internship

**CIPM ( Center for Integrated Pest Management ) - Machine Learning (May 2017 – Aug 2017), Raleigh, NC, USA**

- My work was to develop a simulation environment for crop data.
- We trained a model to try to predict how the simulation will proceed in the crops and which area will get affected first which was important in infection control.
- We used Node.js, Apache Spark and Java for creating the simulation.

**WhiteHatAI - Machine Learning (March 2018 – Present), Raleigh, NC, USA**

- Develop filters for detecting fraud in medical claims
- I am using python (keras on tensorfow) to develop learning model.
- Setting the optimal threshold point of confidence in the network to fag the data for manual scrutiny.

## Working Experience| Tata consultancy services Limited (jun 2014 – may 2015)

**Etihad Airways**

- Data handling and data manipulation using Hadoop and kafka.
- Our job was to filter useful data from the stream of airline data we are getting and maintain the useful information.

**Internal Websites revamping**

- Web-page development and adding the extra functionality in the internal project of TCS.
- Database connectivity of the websites and data handling.

## Technical Skills

Tensorflow, caffe, Keras, SLAM, Lidar, GPS, IMU, Python, Java, C++, C, Apache Spark ML Library, Hadoop, Kafka, Javascript

## Teaching Experience

**Teaching Assistant | North Carolina State University| Aug 2016 – Dec 2017**

· I was Teaching assistant for the course Data Structure for Computer Scientists.

**Teaching staff | Mahavir jain academy | Nov 2015 – Feb 2016**

· I was Teaching Mathematics for GRE, GMAT and SAT.

## Research Experience and Publications

· **Smit Anand**, Nishat Afreen and Shama Yazdani. Article: **A Novel and Efficient Selection Method in Genetic Algorithm**. *International Journal of Computer Applications* 129(15):7-12, November 2015. Published by Foundation of Computer Science (FCS), NY, USA. PDF

· Shama Yazdani, **Smit Anand** and Nishat Afreen. Article: **Agent based Evolution Model in JAVA (ABEMJ)**. *International Journal of Computer Applications* 131(18):49-53, December 2015. Published by Foundation of Computer Science (FCS), NY, USA. PDF

· Received the best poster presentation award for the topic "**Ensemble method for best motif finding**" in course Computational Method for Molecular Biology, 2016.

· (Worked for seven months) **Smit Anand**, Dr. Amitabha Mitra (senior consultant scientist at Bose Institute - CAPSS), Ayona Chakraborty (Scientist B at Bose Institute - CAPSS) " **Simulation and Calculation of Radar Cross Section of Air-Borne Vehicles** " using **MATLAB** and **Computer Simulation Technology**. Link

· (minor thesis) Shama Yazdani, **Smit Anand**, Ankita Singh," Survey **and Simulation of Cluster Based Routing Protocols in MANETs**" under the supervision of Asst. Prof. Prabhat Kumar Sahu.

## Awards and Certifications

**certificate of achievement | acm-icpc regional| 2013, Kerala, india**

· ACM – International Collegiate Programming Competition

**certificate of achievement | acm-icpc regional| 2014, IIt-Kharagpur, india**

· Our team rank was 42.

**certificate of completion for course winform using c# from aptech in 2012**

**certificate of completion for applications using asp.net from niit in 2013**