

ASHWIN NARESHKUMAR

#559, 22nd 'A' Cross, Banashankari 2nd Stage, Bangalore – 560070, +917760116470, ashwin.naresh94@gmail.com

Personal Webpage: <http://ashwinnaresh.github.io>

EDUCATION

PES Institute of Technology (PESIT), Bangalore, India [2012-2016]

Bachelor of Engineering, Computer Science and Engineering

- Overall Cumulative GPA: 9.74/10.0
- 10th Rank Holder in the Department out of 250 candidates
- 'Prof. MR Doreswamy Distinction Award' for Semesters I, II, III, IV, V, VI, VII and VIII

SKCH Composite Pre-University College, Bangalore, India [2010-2012]

Karnataka Pre-University College (Grades 11 & 12)

- Overall Percentage (PCM): 98.67%
- Overall State-Wide Common Entrance Test (CET) Rank – 535 out of over 100,000 candidates

RESEARCH PUBLICATIONS

- '[Secure Orchestration Based Federation in Hybrid Cloud Environments](#)', published in the Proceedings of ICIT 2015, Bhubaneshwar, India. [Publisher: IEEE].
- '[Automated Content Suggestion for Document Writing](#)', accepted for publication at the ICCIC 2016, Chennai, India. [Publisher: IEEE]
- '[Automated CAPTCHA Generation from Annotated Images using Encoder Decoder Architecture](#)', accepted for publication at the ICIT 2016, Bhubaneshwar, India. [Publisher: IEEE]

WORK EXPERIENCE

Center for Cloud Computing and Big Data, PESIT Summer Research Intern [May – Aug 2014]

- Implemented a cloud federation solution for OpenStack using Nova cells (EMC² funded project)
- This project was presented at the [OpenStack Atlanta Summit 2014](#).
- A poster presentation on this project was given at the IEEE CCEM conference 2014 held in Bangalore.

Center for Cloud Computing and Big Data, PESIT Summer Research Intern [May – Aug 2015]

- Provided a hybrid cloud solution for federating OpenStack and vmware vCloud Air using Nova Availability Zones (vmware funded project)

Brocade Communications Systems, Intern [Jan – Jun 2016]

- Designed and implemented a deep learning network for performing anomaly prediction in LTE network traffic using Google TensorFlow
- Developed a machine learning model capable of detecting inconsistencies in GTP (LTE protocol) message exchanges in mobile traffic flows.

- Implemented a CLI and REST framework for discovering connected LTE network components
- Working on building a smart load balancer which balances the mobile traffic for efficient egress port utilization on Enterprise Switches. Provisional Patent filed on the proposed solution.

PROJECTS

- **Cricket Match Summary Generation**
 - Developed a system capable of generating match summaries given the match commentaries.
 - Project entailed extracting cricket commentaries and performing Named Entity Recognition using a Vanilla Recurrent Neural Network (RNN).
 - Commentaries were tagged with 'match events' using a MaxEnt model and a summary based on the outputs of the RNN and the MaxEnt model was generated.
- **Cricket Match Score Prediction**
 - Player wise clustering was done using Apache Mahout given the competing teams and a map-reduce score prediction algorithm calculated the match score using Apache Spark.
- **Comparative analysis of Neural Network and Autoencoder performance on Image Classification**
 - Implemented Simple Neural Network and Auto-encoder based image classifiers.
 - Comparative analysis done on the results obtained by both systems showed that the autoencoder gave much better accuracy than the simple neural network.
- **TripBook**
 - Web application which provides a social platform for travelers to plan their trips and create travel diaries from their trips.
 - The information about different places was scraped using Python's scrapy spiders and accordingly, an itinerary was provided to the user based on the options selected for trip duration, budget etc.

ACHIEVEMENTS

- Third Runner Up at HackerRamp Hackday, Myntra Designs, Bangalore among over 300 participants.
- Top ten finalist at App.ly: Code to Empower Her – Women's Day Hackathon, SAP Labs, Bangalore among over 200 participants.

Community Initiatives:

- Actively tutored students in government schools weekly under the initiative of Collegiate Social Responsibility Club (CSR), PESIT.
- Participated in blood donation camps organized by CSR club, PESIT.
- Promptly took on the role of Student Placement Coordinator and assisted in the University placements process at PESIT.
- Conducted web technology workshops for students in the university.
- Mentored a group of juniors on their hobby project which was received well by Venture Capitalists during the Indian Institute of Management, Bangalore's Startup Bootcamp.

Volunteering Activities:

- Head organizer of Ayana 2015, a 24-hour hackathon at PESIT, Bangalore.
- Core team organizer for the events - Prakalpa 2015 (Annual Project Exhibition, PESIT) and Hashcode 2014, a 24-hour annual hackathon at PESIT, Bangalore.