Akhil Kumar Penugonda

Third Year B-Tech Student

Electronics and Communication Department

Velagapudi Ramakrishna Siddhartha
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Academic Details

Year	Degree	Institute	Percentage/CGPA
2016-Present	B-Tech in Electronics and Communications Engineering	Velagapudi Ramakrishna Siddhartha Engineering College	CGPA = 8.81/10
2014-16	Intermediate	Narayana Jr College	97.4%
2014	Class X - SSC	Viswabharati EM High School	GPA=9.7

Objective

To complete an Internship in an esteemed institute through which I could get a great exposure to the industry level advancements so that I could enhance my knowledge in the field of Artificial Intelligence.

Self-Projects

Cats and Dogs Classification using CNN

1. Designed a 3 Layered Neural Network using Keras with Tensor Flow backend to classify and detect cats and dogs using Kaggle dataset and obtained an accuracy of 93%.

Customer Classification Using Clustering Algorithm

2. Designed Customer classification Algorithm using various features using K-Means with Scikit-Learn Library.

Hand-Written Digit recognition using MNIST dataset

3. Designed a hand-written detection algorithm using 3 layered neural network and obtained an accuracy of 97.5%

Projects done at Competitions

Home Automation and Ambience control using IBM Cloud

In a Hackathon in 2017 at our College Sponsored by Smart Bridge Pvt. Ltd.

Aimed at making a complete automated House which can control all the daily appliances that we use in our daily life (Lights, Fans, AC, TV…). We used IBM cloud Bluemix as the database and created Cloud Foundry applications to make the application interactive. We used Raspberry Pi and NodeMcu as controllers and Python for programming Raspberry Pi and Embedded C for NodeMcu.

Smart Pollution control and Waste Management using IBM Bluemix Cloud

In a Hackathon at IIT-Hyderabad in 2018

Using a few sensors and NodeMcu as a controller and Embedded C to code we developed a project on smart cities which concentrates on smart parking, Pollution control, Waste management, using IBM

Bluemix and AI Watson nodes through Node-Red, an application programming interface.

Anomaly Detection using IBM Cloud, IFTTT, Blynk

During Engineers Day Celebrations
at VRSEC in 2018

Theft alerts, Intrusion alerts, Fire alerts, Smart alarms were designed using NodeMcu and the required sensors using IBM Cloud for text to speech conversion and remote operating systems, IFTTT and Blynk for actuation and Interfacing the hardware.

Conferences/Workshops Attended/Organized

- Organized a Workshop on Importance of Ham Radio in November 2018
- Attended a Hands-on workshop on Light Weight Cryptography conducted by IEEE Local Chapter at VRSEC Vijayawada in October 2018
- Attended a workshop on VLSI Front end design conducted by IEEE EDS Society in MJCET College Hyderabad in March 2018.
- Attended a Workshop on "Advances in MMIC Technology" conducted by IEEE in collaboration with Astra Microwave Pvt. Ltd. at VR Siddhartha Engineering College in 2018
- Attended Lamakaan Annual Radio Convention Conference conducted by Lamakaan Amateur Radio Club at MJCET-Hyderabad in 2018.
- Attended a conference on Crypto Currencies and Block Chain technologies conducted by CSE Department of VR Siddhartha Engineering College in 2018.
- Attended a Workshop on Internet of Things with Cloud conducted by Smart Bridge in collaboration with IBM in 2017.

Certification Courses

1. Machine Learning by Stanford University in Coursera. Jan-April 2018
2. Deep Neural Networks in Coursera. Oct-Dec 2018
3. Deep Learning Fundamentals in Cognitive Class By IBM. August 2018
4. Deep Learning with Tensor Flow in Cognitive Class By IBM. December 2018
5. Data structures and Algorithms using Python in NPTEL. Feb-March 2018
6. Embedded System Design in NPTEL. Jan-April 2018

On Going Courses

1. Deep Learning Specialization by Deeplearning.ai in Coursera.
2. Machine learning with Tensor Flow on GCP by Google in Coursera.

Internship

An internship at GenX Solutions Hyderabad on Mobile Communications. Got Hands on experience using TEMS tool for testing signal strengths at a place in the city.

Memberships

IEEE Student member # 94638324 Hyderabad Section

Computer Skills

Programming Languages: Python, C, Verilog HDL, Embedded C

Software Packages: Matlab, Xilinx, Multisim.

Platforms: Linux and Windows.

Extra-Curricular Activities

1. Hackathons:

   -Stood in top 5 among 50 selected projects on Smart city Hackathon using IOT conducted by Smart bridge Pvt. Ltd. In collaboration with IBM in 2017.

   -Participated in Entrepreneurship Hackathon and developed a project on smarter pollution control and waste management using cloud which is conducted by IIT-Hyderabad in its fest eLan& nVision in 2018.

2. Won the 1st prize in inter college event Technical and Non-Technical event conducted by Vignatha Club

3. Won the 2nd prize in the Paper Presentation competition by presenting a technical presentation on "Graphene Based Electronics" in AFOSEC 2k17 in VR Siddhartha Engineering College in 2017.

4. Won the 1st prize in technical event "Techno Mania" conducted by IETE student Forum in 2017.

5. Stood in top 50 among the 500 ventures in the "Smart Idea" conducted by International Institute of Entrepreneurship Development (i2E) in collaboration with APSSDC and in partnership with Northeastern University, Boston, USA in 2017.

Personal Skills

Adaptive mindset   Optimistic   Self-motivation
Time management   Decision making   Communication

Social Network and References

LinkedIn Profile https://www.linkedin.com/in/akhil-kumar-penugonda/

Acclaim Badges https://www.youracclaim.com/user/akhil-kumar-penugonda

My Blog https://technicalsurfing.blogspot.in/ which shows my Interests in technological Advancements.

Hobbies

Coding   Gym   Reading Books and Tech Blogs   Listening to podcasts