Nagarjun. E

MASTER OF ENGINEERING · COMPUTER SCIENCE AND ENGINEERING

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"Be the master, People will follow you."

Carrer Objectives

To seek an opportunity in the areas of Computer Networking, Machine Learning and IoT-based application development in a competitive work environment to utilize my academic skills and perform efficiently in the organization, by engaging in activities that enhance my technical and collaborative skills to help me grow as a professional.

Profile Summary

- Good academic record.
- Exposure to UI development in Python and HTML.
- Good analytical, collaboration and communication skills.

Certiication Courses

Complete Python Bootcamp:	Go from Zero to Hero in Python 3, Udemy, Online Course on Oct.7,2019
Complete Data Science Bootcamp:	Udemy, Online Course, ongoing

Education

Postgraduate - University Visvesvarayya College of Engineering(BU)   *KR Circle, Bengaluru*

MASTER OF ENGINEERING IN WEB TECHNOLOGIES   *2017 – 2019*

- Secured an aggregate of 83.37%
- Teaching Assistant for Microprocessor Laboratory.
- Research Assistant from Jan, 2019 - Present

Undergraduate - Atria Institute of Technology(VTU)   *Hebbal, Bengaluru*

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE   *2012 – 2016*

- Secured an aggregate of 68.20%
- Stood at second place in Mad adds - 2K14 - Saptrang.

SCT Polytechnic(DTE)   *Vignannagar, Bengaluru*

DIPLOMA IN INFORMATION SCIENCE AND TECHNOLOGY   *2007 – 2012*

- Secured an aggregate of 60.83%

Govt PU College   *Kodighehally, Bengaluru*

PRE-UNIVERSITY COLLEGE (PCMB, KARNATAKA PU BOARD)   *2012*

- Correspondence Course
- Secured 49.83%

Ashraya High School   *Hebbal, Bengaluru*

SSLC(STATE BOARD, KARNATAKA)   *2012*

- Secured 62.56%

Skills

Programming Languages:	C, C++, Java, HTML, CSS, LaTeX, Python
Frameworks:	Django
Database Systems:	SQL Server, MySQL
Operating System:	DOS, Windows 10, Ubuntu
Applications:	MS Visual Studio, Eclipse, Pycharm
Application Servers:	Apache Tomacat, Xamp, Wamp
Simulation Tools:	NS2, ONE
Editing Tools:	Photoshop CC-17, CS6, Adobe Premier Pro, After Effects
Languages:	Kannada, English, Hindi, Telugu

Areas of Interest

- Internet of Things
- Opportunistic Networks, Delay Torrent Networks, Wireless Sensor Networks
- Raspberry Pi Systems
- Web Technologies
- UI/UX Developer

Academic Projects

HMCRA: Hybrid Multi-Copy Routing Algorithm for Opportunistic IoT Network   *UVCE, Bengaluru*

MAIN CONTRIBUTIONS OF THE PROPOSED WORK   *Aug. 2014 - Exp. Apr. 2016*

- Selecting potential nodes among various available nodes to disseminate message using fuzzy logic. Fuzzy rules formulation based on energy, speed and distance.
- Finding reliable and optimal route to deliver message from source to destination using GA.
- Optimizing various IoT network parameters like delivery probability, latency, hop count and overhead ratio in an opportunistic scenario.
- Developed in ONE Simulator, Tools : Eclipse, Language : Java

EASM: Energy-Aware Sink Mobility Algorithm to Prolong Network Lifetime in WSN   *UVCE, Bengaluru*

MAIN CONTRIBUTIONS OF THE PROPOSED WORK   *Aug. 2014 - Exp. Apr. 2016*

- The aim of this work is to collect data from all sensor nodes, aggregate and forward to cloud.
- Implemented through reconstructing the network and creating new routing paths in the network
- The sink node moves to a new safe location, neighboring nodes having more residual energy when sink current neighboring node's residual energy reaches threshold level
- To prolong the network lifetime
- Developed in Matlab

Lifetime Maximization of IoT Network by Optimizing Routing Energy   *UVCE, Bengaluru*

MAIN CONTRIBUTIONS OF THE PROPOSED WORK   *Aug. 2014 - Exp. Apr. 2016*

- To find the optimal cluster head (CH) for mobile nodes in IoT network.
- MAWCA considers degree difference of the node, sum of differences between neighbors, cumulative time, nodes mobility and delay in choosing a CH as weighting factor during CH election process.
- Developed in NS-2 Simulator, Language: C++

Publications

CONFERENCE

- Srinidhi N N, Nagarjun E, Shreyas J, Dilip Kumar S M and Dharamendra Chouhan, **"Ensuring Fault Tolerant connectivity in IoT Networks"**, *4th International Conference on Intelligent Computing and Communication (ICICC - 2020)*,(Accepted).
- Hemanth Kumar, Nagarjun E and S.M. Dilip Kumar, **"EASM: Energy-Aware Sink Mobility Algorithm to Prolong Network Lifetime in WSN"**, *IEEE 16th India Council International Conference (INDICON 2019), Rajkot, India*, ISBN: 978-1-7281-2327-1, Dec 2019, pp. 1-4, doi: 10.1109/INDICON47234.2019.9029040.
- Srinidhi NN, Nagarjun E and S.M. Dilip Kumar, **"HMCRA: Hybrid Multi-Copy Routing Algorithm for Opportunistic IoT Network"**, *2019 International Conference on Smart Systems and Inventive Technology (ICSSIT), Tirunelveli, India*, ISBN: 978-1-7281-2118-5, Nov 2019, pp. 370-375.
- Srinidhi N N, Sunitha G P, Nagarjun E, Shreyas J and Dilip Kumar S M, **"Lifetime Maximization of IoT Network by Optimizing Routing Energy"**, *IEEE international Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2019 (IEEE WIECON-ECE), Bangalore, India*,ISBN: 978-1-7281-4499-3, Nov 2019, pp. 1-4.

JOURNAL

- Hemanth Kumar, Nagarjun E and S.M. Dilip Kumar, **"Tree Reconstruction using Energy Aware Sink Mobility to Prolong Network Lifetime in WSN"**, *Journal in progress.*
- Srinidhi NN, Nagarjun E and S.M. Dilip Kumar, **" Hybrid Algorithm for Selecting Efficient Node and Path for Opportunistic IoT Network"**, *Journal of Information Technology Management (JITM)*, (accepted).
- Srinidhi NN, Nagarjun E and S.M. Dilip Kumar, **" Establishing Self-Healing and Seamless Connectivity among IoT networks using Kalman Filter"**, *Journal in progress.*

Books
- Nagarjun E, **"E Sullige Kaarana Ninu: A Bunch of Kannada poems"**, *Amazon.com Services LLC,* **Language:** *Kannada,* **ASIN:** *B088172P3J* **Format:** *Kindle Edition and Paperback* **ISBN-13:** *979-8642464465*, May 2, 2020 (Published).
- Nagarjun E, **"Nagarjun's Quotes: For Life"**, *Sold by: Amazon Asia-Pacific Holdings Private Limited,* **Language:** *Kannada and English,* **ASIN:** *B07ZRKBYW2,* **Format:** *Kindle Edition and Paperback* **ISBN-10:** *1703900170,* **ISBN-13:** *978-1703900170*, October 30, 2019 (Published).

Presentation

International Conference on Smart Systems and Inventive Technology (ICSSIT 2019)	*Tirunelveli, India*
Presenter for <HMCRA: Hybrid Multi-Copy Routing Algorithm for Opportunistic IoT Network>	*Nov. 2019*
- IEEE Conference

IEEE international Women in Engineering (WIE) Conference on Electrical and Computer Engineering 2019 (IEEE WIECON-ECE)	*Sterlings Mac Hotel, Bengaluru*
Presenter for <Lifetime Maximization of IoT Network by Optimizing Routing Energy>	*Nov. 2019*
- IEEE Conference

Workshops Attended
- Participated in One-Week workshop on Block chain Technology 26 - 30 August, 2019.
- Participated in One-Week Faculty Development Programme on Artificial Intelligence and Machine Learning Feb-28 - March 07,2019.
- Participated in One-Week Faculty Development Programme on Internet of Things and Big Data Analytics 24 - 30 July,2019.
- Participated in the Personality Development Workshop conducted by Disha at UVCE.

Extracurricular Activity
- Received Rajyapuraskar Award in Scout and Guides.
- Worked as an Associate Director For a Kannada Movie(Birth).
- Designed Banners and Certificates for College Functions.
- Participated in Kagathon as a part of Kagada 2018 conducted by IEEE UVCE.
- Volunteered during the Second Talent Search Award Program at NIAS, IISC Bengaluru.
- Participated in Mad acts competition and bagged 2nd prize(Atria Institute of technology)
- Volunteered during Release of Special Postal Cover on the Occasion of Centennial Celebrations of UVCE.
- Volunteered during the One Day Workshop on Systematic Voters Education and Electoral Participation for Differently abled Youth, 09th April 2019
- Director for Kannada Web-Series called "Nagisuva Tonic " and also worked as Cinematographer and Editor for Two Short-Movies.