

Shreyank N Gowda

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OBJECTIVE

To study in a university, that would give me an opportunity to explore the real world beyond the realms of textbooks and to put my knowledge and skills to practice. In turn my sincere efforts should bring in considerable benefits to the university that gives me this opportunity.

Academic Details

Course	Institution	Board/University	Year of Completion	Percentage
B.E (CSE)	R.V. College of Engg. Bengaluru.	VTU (Autonomous)	2016	8.78 (CGPA)
12th	CMR National Public School, Bengaluru	CBSE	2012	86.6
10th	CMR National Public School, Bengaluru	CBSE	2010	9.6 (CGPA)

TECHNICAL SKILLS

C, C++, Data structures, HTML, CSS, MySQL, JAVA, Python, PHP, OpenGL, MATLAB, R Language

Work Experience

- **Project Associate at Indian Institute Of Technology- Madras** (August 2016 - present) Working under the guidance of Dr. Anurag Mittal, Associate Professor and Head of Computer Vision Lab.
- **Software Developer Intern at Danske IT Support Services** (March 2016- July 2016)
Worked on the iAppreciate System under the guidance of Jayaram S Govindaiah where staff appreciation was provided by peers on a online platform. Customers were also given this option on creating an account and for every customer call they had to handle. Customer care was made more easier by the use of an app/website.
- **Software Developer Intern at Vital Labs Inc** (Jan 2016 - March 2016)
Worked on the development of the Flocker backend driver to be used in Docker containers. This helps in virtualisation improvement. The driver was written in Python.

Conference Publications

1. **"Facial Expression Analysis by k-means Clustering on Fiducial points of face"** to be presented at **The 12th International Conference on Computer Vision Theory and Applications** to be held during 27th Feb-1st March 2017 at **Holiday Inn Porto Gaia, Porto, Portugal.**

2. **"Social Influence As A Parameter to Prioritize Social Problems"** presented at the **International Conference On Advanced Technologies For Societal Application** held during December 20th-21st 2016 at **Shri Vithal Education And Research Institute's College Of Engineering, Pandharpur, India.**
3. **"Advanced Dual Layered Encryption for Block Based Approach to Image Steganography"** presented at the **IEEE International Conference On Computing, Analytics And Security Trends** held during 19th-21st December at **College Of Engineering, Pune, India.**
4. **"Age Estimation using LS-SVM Regression on Facial Images"** presented at the **International Symposium on Visual Computing** held during December 12th-14th at **Las Vegas, USA.**
5. **"Fiducial points detection of a face using RBF-SVM and Adaboost Classification"** presented at **ACCV 2nd Workshop On Spontaneous Facial Behaviour Analysis** held during November 20th 2016 at **Taipei, Taiwan.**
6. **"Advanced 3-DES Block Based Least Significant Bit Algorithm for Image Steganography"** presented at the **IEEE World Congress On Internet Security** held during November 14th-16th at **London, UK.**
7. **"An Advanced Diffie-Hellman Approach to Image Steganography"** presented at the **IEEEComsoc Sponsored 10th IEEE International Conference on Advanced Networks and Telecommunications Systems** held during 6th-9th November at **Indian Institute Of Science, Bengaluru, India.**
8. **"Using Blowfish Encryption to Enhance Security Feature Of An Image"** presented at the **IEEE International Conference On Information Communication And Management** held during October 29th-31st 2016 at the **University Of Hertfordshire, Hatfield, UK.**
9. **"Statistical Approach for Disk Scheduling Algorithm"** presented at the **IEEE, ACM and Internet Society Of Thailand Chapter 2nd World Congress On Engineering Science And Technology** held during October 22nd-23rd 2016 at **Bangkok, Thailand.**
10. **"An Innovative Trigonometric Approach to Cryptography"** presented at the **IEEE Sponsored International Conference On Control, Computing, Communication And Materials** held during October 21st-22nd 2016 at the **United College Of Engineering And Research, Naini, India.**
11. **"Adaptive Standard Deviation Based Disk Scheduling Algorithm"** presented at the **IEEE Sponsored International Conference On Advanced Computing and Software Engineering** held during October 14th-15th 2016 at **Kamla Nehru Institute Of Technology, Sultanpur, India.**
12. **"Face Verification Across Age Progression Using Facial Feature Extraction"** presented at the **IEEE Sponsored International Conference On Signal And Information Processing** held during October 6th-8th 2016 at the **Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded, India.**
13. **"Traffic Timer Synchronization based on Congestion"** presented at the **IEEE Sponsored International Conference on Computational Systems and Information Technology for Sustainable Solution** held during October 6th-8th 2016 at **R.V. College Of Engineering, Bengaluru, India.**
14. **"Innovative Enhancement Of Caesar Cipher Algorithm for Cryptography"** presented at the **IEEE Sponsored 2nd International Conference On Advances in Computing, Communication And**

Automation held during 30th September-1st October at **MJP Rohilkhand University, Bareilly, India.**

15. **"Dual Layered Secure Algorithm For Image Steganography"** presented at the **2nd IEEE Sponsored International Conference On Applied and Theoretical Computing and Communication Technologies** held during July 21st-23rd 2016 at **SJBIT, Bengaluru, India.**
16. **"Surveillance Video Based Robust Detection And Notification Of Real Time suspicious activities in indoor scenarios"** presented at the **3rd International Conference on Signal and Image Processing** held during the May 21st-22nd 2016 at **Vienna, Austria.**
17. **"Innovative Approach to Hide Data in Images"** presented at the **International Conference on Emerging Trends in Engineering and Technology** held during May 8th-9th 2016 at **Bengaluru, Karnataka, India.**
18. **"Block Based Least Significant Bit Algorithm for Image Steganography"** presented at the **2016 Annual International Conference on Intelligent Computing, Computer Science and Information Systems (ICCSIS-16)** that was held during April 28th-29th, 2016 at **Pattaya, Thailand.**
19. **"Dynamic Mean Based Job Scheduling Algorithm"** presented at the **Sixth IEEE Sponsored International Conference on Digital Information Processing and Communications (ICDIPC)** that was held during April 21st-23rd, 2016 at **Faculty of Engineering – Lebanese University, Campus of Hadath, Beirut, Lebanon.**

Journal Publications

1. **"Count Based Page Replacement Technique"** published in the **International Journal Of Advances In Electronics And Computer Science** August edition.
2. **"Statistical Approach to Determine Most Efficient Value For Time Quantum In Round Robin Scheduling"** published in the **International Journal Of Computer Science And Information Technology** August edition.

Projects

- **Complete Traffic Synchronization based on congestion**

An entire system is being produced to dynamically change the existing traffic system. First image processing is done to detect the lane with maximum density. This is done using OpenCV in C++. But when an emergency vehicle approaches the lane in which it is arriving is freed. Priority is set to avoid ambiguous choice of emergency vehicle. The emergency vehicle is detected using a bandpass filter. All signals are being maintained using a database. The database is necessary to avoid signals with broken roads etc. The database is created using MySQL which is stored in an AWS cloud. The entire execution is managed by programming a Raspberry Pi using Python.

- **Social Problems Prioritization using Social media using R Language**

An app was developed which helped to prioritize general social problems being experienced by the public. A set of photos would be uploaded under a particular hashtag (for example #helpbangalore), these would be shared to the public who could voice their opinion by 'retweeting' or 'favouriting' the images they felt were most important. This would be kept for a week and the photos would be ordered based on highest number

of retweets and favourites to help the local in charge to deal with the problem the people found most important.

- **Sentimental analysis of tweets for a subject using R Language (IBM Bluemix)**

An app was developed that helped to determine the general public opinion with respect to any particular hashtag on twitter. A mongo database was used to store the data and live data was taken, which ensured dynamic description of public opinion.

- **Detection of emergency vehicles using sound sensor module**

All emergency vehicles repeat sounds of some frequency. This was taken as the idea and a sound sensor module was designed with a filter to help block out other frequencies. Also each emergency vehicle was given priority, with ambulances being given highest priority.

Extra Curricular Activities

- Qualified for National Mathematics Olympiad by standing 27th in the state of Karnataka in the regional Mathematics Olympiad.
- Participated in Hack59 conducted by Yodlee(2014).
- Participated in Bluemix Hackathon by IBM.
- Captain of school football team.
- Actively taken part in blood donation camps and paper drives to obtain money for charity purposes.
- Worked as a blogger and Social Media promoter for Smile Foundation, Bengaluru.
- Have been actively working as a volunteer for the NGO Yuva, Bengaluru.
- Have been actively teaching under privileged children to aid their studies from rural areas around Bengaluru.
- Worked as a volunteer at Sathya Hospital for over 6 years, filling up forms for the illiterate, transporting them to and from the treatment areas etc whilst also helping raise funds for the needy of the hospital.
- Worked as part of Centre of Research and Development Initiative- Karnataka. Was also part of the team that got the project "Karnataka Municipal Reforms Project" accepted for funding by the World Bank.
- Actively fighting for women and child rights as part of the initiative by Centre Of Research and Development Initiative.

POSITIONS OF RESPONSIBILITY

- Volunteered for various activities like Paper Drive, Blood Donation Camp conducted by Rotaract Club of RVCE(affiliated to Rotary International District 3190).
- Coordinated Paper drive conducted by Rotaract Club of RVCE(affiliated to Rotary International District 3190).

Awards

- **Travel Bursary award** for the paper titled "**Face Recognition Over Age Progression Using Facial Feature Detection**" at the **IEEE Sponsored International Conference Of Signal and Information Processing**. Was one among 17 papers selected from a list of 148 papers.

- **Best Paper Presentation** for the paper titled "**Innovative Approach to Hide Data in Images**" presented at the **International Conference on Emerging Trends in Engineering and Technology** held during May 8th-9th 2016 at **Bengaluru, Karnataka, India**.
- **2nd Place** for the Project titled "**Traffic Time Synchronization based on Density and Emergency Vehicle Detection**" at the project exhibition held on 6th May 2016 conducted by the Department of Information Science And Engineering.
- **Won the best Self Study presentation** award during 4th semester which was given to the student with the best project in that semester.

Personal Details

Name : Shreyank N Gowda

Father Name : T Narayana Gowda

Mother Name : Shobha Rani N Gowda

Date of Birth : 2 October 1993

Languages Known: English, Kannada, Hindi, Telugu, Tamil