Supriya B Rao
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Qualification

Master of Technology

NMAM Institute of Technology/Nitte — *2018-2020, 8.4 CGPA*
Computer Science and Engineering

Bachelor Of Engineering

Mangalore Institute of Technology & Engineering — *2011 – 2015, 60%*
Computer Science and Engineering

PUC

Shri Bhuvanendra College, Karkala — *2009 – 2011, 77%*

SSLC

Christ King English Medium School — *2009,82%*

Technical Skills

Programming Languages:	C, C++, Dart, Python.
Web Designing:	HTML, CSS, XML
Database:	MySql
Framework:	Flutter
Software's:	Anaconda, Pycharm, Android Studio, VS Code.
Official Applications:	Microsoft Office

Work Experience

Sahyadri College of Engineering & Management
Assistant Professor — *17-11-2020 - Present*

- Prepared lectures for BE students.
- Guide, Lead and mentor students in research projects.
- Design & development of course syllabus.
- Developed and supervised various laboratory activities for computer science courses.

Thaniya Technologies

CEO — *01-09-2021 - Present*

Bhavam AI Technologies
Mobile App Developer — *15-08-2020 - 15-11-2020*

- Working with iOS/Android SDK & Flutter.
- Experience with third-party libraries and APIs.
- Working knowledge of the general mobile architectures, trends, and emerging technologies.
- Working with Firebase Auth, MySQL.

Bucolic Kailash Agritech & FMCG Pvt Ltd
IT Solutions Architect Intern — *1-06-2020 - 30-08-2020*

- Website Development.
- GitHub, Linux.
- Providing IT solutions for Leads.

Additional Work Experience

Al Sayed Group, Doha Qatar

Secretary/Document Controller/Tender Assistant *02-06-2016 - 30-06-2017*

- Preparing Tender documents.
- Arranging site visit with Clients for tender.
- Analyzing the requirements of Tender and discussing with management.
- Preparing Technical and Commercial documents for submission.

Patents

Indian Patent: Enhanced Detection of Attacks on Network Based on Pattern Recognition with Decision Stump.

Indian Patent: A Wearable Pregnancy Monitoring Apparatus to Collect Physiological Parameters.

International Patent: An Improved Cyber Security System with Digital Water Marking Using Combined Transformation approach.

Publications

- Presented and published paper titled “Study on Automatic Speech Therapy System for patients” at the International Conference on “Artificial Intelligence and Data Engineering 2019” organized by NMAMIT in collaboration with Ritsumikan University, Japan.
- Published Paper Titled "Speech Classification for Kannada Language" In ‘International Journal Of Innovative Technology and Exploring Engineering (IJITEE).
- Published Paper Titled “Blockchain with Corona Virus: Moving Together to Prevent Future Pandemics." In Healthcare and Knowledge Management for Society 5.0, pp. 89-100. CRC Press.
- Published Paper Titled” "Diagnosing Patient Health Conditions and Improving the Patient Experience: An Application of AI and ML." In Healthcare and Knowledge Management for Society 5.0, pp. 21-35. CRC Press.

Projects

- **Analysis of Speech Therapy System (STS) For Kannada Language**

  Developed a STS for the detection, evaluation and providing timely feedback for Kannada words. The machine learning model was built to understand and learn from the available data for an accurate prediction. STS provides timely feedback about the correctness of the user’s spoken words or to engage the user in spoken dialogue practice or other speech therapy activities. Project is accomplished using Anaconda and Pycharm.

- **Kannada Speech Classification – Machine Learning with Python.**

  In this work we have classified Kannada words using various Machine Learning Classifiers. Main goal was to compare classification accuracies for the 6 tested classifiers. Project dependencies include Anaconda 3 with Python 3.6., Librosa, Sci-kit learn ,Keras(Theano backend),Numpy, Matplotlib, Pandas.

- **Speech Processing for Machine Learning –-Python**

  Speech features are extracted using various feature extraction algorithms. Speech waveforms are changed to parametric representation at a relatively minimized data rate for subsequent processing and analysis. Project is accomplished using Spyder (Anaconda3).

- **Secure Image Transmission via Mosaic Image — MATLAB**

  Secure image transmission method has been proposed from which a secret image is transformed into meaningful mosaic image which looks like preselected target image. LSB algorithm is used to increase the security of data. Project is implemented using MATLAB.

Certificates

- Participated in 5-day FDP on "**App Development with Android** " organized by EICT academy, IIT, Kanpur.
- Participated in 5-day ATAL FDP on "**Industry Oriented FDP on Artificial intelligence**" organized by MSME-Technology Development Centre (PPDC), Meerut.
- Participated in 5-day ATAL FDP on "**Next Generation Databases"** organized by Bhilai Institute of Technology, Durg.
- Participated in 5-day FDP on "**Inculcating Universal Human Values in Technical Education**" organized by All India Council for Technical Education (AICTE).
- Participated in 5-day AICTE FDP on " **Cooperative & Collaborative Teaching-Learning Processes** " at Sahyadri College of Engineering & Management, Mangalore.
- Participated in workshop on "Machine Learning and Deep Learning-Hands-on: An Industry Perspective" organized by NMAMIT in collaboration with Ritsumeikan University, Japan.
- PLC Training held at "Mangalore Institute of Technology & Engineering-Bosch Rexroth Centre of Competence in Automation Technology".
- Building voice assistant with Alexa – Udemy.
- Digital skills: Artificial Intelligence, Digital Marketing, Web Analytics –Accenture.
- Network simulation using NS-3 held at NMAMIT, Nitte.
- Certificate in Microsoft Word, Excel, Typing.

`Achievements

- Start-up Karnataka Elevate 2021 Runners for the Pitching of Title:" **Vaagdhare**".
- Received a Fund of 2,60,000 for the Project entitled" **Neural Assistant Manager**" from NAIN in 2021