Vittal Badami

Computer Science & Engineering **B.E**
KLE Technological University Hubli Male

Examination	University	Institute	Year	CGP/%
Graduation	KLE Tech	KLE Tech	2023-24	9.29
Intermediate/+2	Vidyanikethan PU Science College	Vidyanikethan PU Science College	2018-19	92.83
Matriculation	KSEEB	ST ANN'S English Medium High School	2017	95.68

FIELD OF INTERESTS

- Artificial Intelligence and Machine Learning , Data Structures & Algortithm , Web Technologies

TECHNICAL SKILLS

- **Programming & Scripting Languages**: C, C++, Javascript, Python, HTML, CSS, Bash Script.
- **Tools & Libraries**: MATLAB, OpenCV, PyTorch, TensorFlow, Github, Arduino IDE, Ethereum Remix IDE.
- **Web Technology**: Django, JavaScript, ReactJS, AngularJS, Electron JS, Node JS.

MAJOR PROJECTS

- **MeLi Data Challenge 2021** *(Data Science Contest)*
  (Guide: Prof. Sunita H., July'21-Sept'21)
  - Goal: Build a model to forecast item inventory days based on Mercado Libre historical data.
  - Task: Predict how long it will take for the inventory of a certain item to be sold completely. In inventory management theory this concept is known as inventory days. We have come up with a neural architecture with transfer learning for existing model.This model gave us a rank of 41 among 157 participants.
  - (`https://ml-challenge.mercadolibre.com/`)

- **Optimization of Binary Neural Architecture Search** *(Research Project)*
  (Guide: Prof. Sunil V.G., July'21-till date)
  - Goal: Optimizing the binary neural architecture searched models for multiple competing objectives like accuracy, latency, power usage, FLOPS for image classification task.
  - Task: Proposed Evolutionary algorithm based Multi-objective search and Binary Convulutional Neural Networks to achieve the objective. Developed as a web application for user to customize their model for image classification task. **(Details of this project are not made public due to confidentiality)**.

- **Hand Gesture Volume Control** *(Personal Project)*
  (July'21-till date)
  - Goal: Develop a tool which controls the machine without physically touching based on gesture control.
  - Task: Built hand gesture volume control in python using Google's media pipe library for tracking hand movements. Which controlled the master volume of the computer based on hand positions.
  - (`https://github.com/VittalAB/HandGestureVoulmeControl`)

COURSE PROJECTS

- **Floor Cleaning Bot** *(Course Project)*
  (Guide: Prof.Unnati Koppikar., July'19-Sept'19)
  - Goal:A mall in hubballi is facing a shortage of human labour to clean the floor. They wish to automate this process by installing floor cleaning bots in mall. There is a need to design a bot which helps in maintaining cleanliness in mall.

- Task: Developed a prototype of the bot using simulation tools like tinkercard and arduino IDE.
- (https://github.com/K-Division-2019-2020-Even/Repo-04/wiki)

- **Library Management System** *(Course Project)*
  (Guide: Prof. Priyadarshini K., July'20-Aug'20)
  - Goal: Building a Library Management System in C language which demonstrated the usage of data structure usage in real time application of library management system.
  - Task: Built an C application with basic data structures like linked list, hashing, binary tree to perform activities of library management system.
  - (https://github.com/VittalAB/Library-Management-in-C)

- **Rehabilitation Database** *(Course Project)*
  (Guide: Prof. Sunita P.G., July'20-Aug'20)
  - Goal: Develop a database for storing and managing details of a rehabilitation center.
  - Task: Built a database application using PHP and MySQL as a backend and HTML, JS, CSS for frontend to collect data from user.
  - (https://github.com/VittalAB/REHABILITATION-DATABASE/wiki)

- **Football Management System** *(Course Project)*
  (Guide: Prof. Manjula Pawar, July'20-Aug'20)
  - Goal: Develop a Football Management System using OOPS Design Patterns.
  - Task: Built a C++ application which demonstrated the template and startegy design pattern along with game simulation.
  - (https://github.com/VittalAB/OOPS-PROJECT-DESIGN-PATTERN-DEMO)

- **Blog Website** *(Course Project)*
  (Guide: Prof. Soumya C.V, July'20-Aug'20)
  - Goal: Build a blog website using MERN stack.
  - Task: Built a Blog Website using MERN stack approach with MongoDB cloud database.

PROFILE

- **LinkedIn Profile**: (https://www.linkedin.com/in/vittal-badami-450812231/)
- **Github Profile**: (https://github.com/vittalab)
- **Medium Profile(Blog Website)**: (https://medium.com/@vittal.a.badami0107)
- **Portfolio Website**: (https://vittalab.github.io/Portfolio/)

CERTIFICATIONS & ACCOMPLISHMENTS

- **Hackerrank Certifications**: Problem Solving (Basic & Intermediate), Python (Basic), C (Basic & Intermediate), SQL (Basic & Intermediate) (https://www.hackerrank.com/vittal_a_badami1)
- **Codechef Profile**: (https://www.codechef.com/users/vittal_6)

LANGUAGES

- **Native:** Kannada
- **Others:** English, Hindi

STRENGHTS

- **Self-Confident, Problem Solver, Enthusiastic, Dedicated, Leadership, Team Work.**

INTEREST & HOBBIES

- **Travelling, Drawing and Arts, Cooking, Spending time with nature.**