Nisarga Gondi

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Links: LinkedIn | GitHub

EDUCATION

Visvesvaraya Technological University, Bangalore, India
B.M.S College of Engineering (NAAC - 'A++ Grade') Dec 2021 – Present
Bachelor of Engineering: Computer Science & Engineering ***G.P.A*: 8.76/10**

Sir M Visvesvaraya Pre-University College, Davanagere, India
Senior Secondary School / Pre-University (Grade XII): Physics, Chemistry, Mathematics & Computer Science Jun 2018 – Mar 2020
Percentage: 93.67%

Sandur Residential School, Sandur, India
High school: Indian Certificate of Secondary Education (ICSE) Jun 2011 – Mar 2018
Percentage: 90.5%

INTERNSHIP EXPERIENCE

Samsung PRISM, Bangalore, India
Position: Research Intern Mar 2024 – Sep 2024
Project Title: Bixby Smart Notification

- Ideated and developed an Android Application to classify notifications that can be integrated with **Bixby - Samsung's virtual assistant.**
  - ➢ Designed using **Native Android, Notification Listener Service, and** State-of-the-art models - **Incremental Decision Tree, Random Forest.**
    - Collected user notifications from different devices in real time while **preserving user privacy.**
    - Analyzed the data, trained & tested the models - achieved a **peak accuracy** of **93.15%.**
    - Integrated the model into the Android application using **ONNX model conversion** for faster and lighter processing on the user side.
  - ➢ The features implemented in the Android Application are:-
    - To detect and classify the notification according to its importance.
    - To prompt the user when the less important notification is detected and get feedback.
    - To dynamically adjust the model by training the model periodically on new data collected.
  - ➢ Received excellence remark from the Samsung PRISM team and a cash incentive of 80,000 Rs /- (950 $)

ACADEMIC PROJECTS

Trip Master; *7^{th} - 8^{th} Semester, Team of 4* Oct 2024 – Present

- Designing and Developing an application that would enhance Travel Planning using a web-based platform that integrates itinerary generation, budget analysis, currency conversion, and augmented reality.
- It is useful for travelers to make well-informed decisions about places to visit and include their budget constraints.
- Gives the traveler the option to check the budgets of hotels close to them using augmented reality and provides user recommendations based on sentimental analysis.

Singularity Web Development; *6th Semester* Mar 2024 – Aug 2024

- Designed and developed a web application using the MERN stack for a club I worked and led for 2 years, the web application is designed to share information about the club and to register for events.
- Designed a user-interactive page to share about astronomy and astronomical events through calendars.
- Integrated Google Calendar API, client-admin side pages, and Razorpay to create and register for events through smooth payment.

Super Cart; *5th Semester, Team of 3* Oct 2023 – Feb 2024

- Developed an Android application that enhances the shopping experience at supermarkets by eliminating the hectic waits at checkout.
- Implemented barcode scanning in the Android application so the users can scan a product and add it to the cart.
- Implemented Razorpay for online transactions, thereby removing the hefty queues at checkout.

Exoplanet Detection Using Machine Learning; *4th Semester* Apr 2023 – May 2023

- Developed machine learning models using Kepler satellite data from Kaggle to accurately predict exoplanets, demonstrating proficiency in data preprocessing, model selection, and performance optimization techniques.
- Learnt and applied KNN (K-Nearest Neighbors), and Random Forest models to train and predict the exoplanets.
- Understood the importance of data preprocessing (outliers, biases, etc.,) and also an in-depth understanding of how the machine learning models work.

Heal Us, *3rd - 4th Semester, Team of 4* Oct 2022 – Aug 2023

- Developed a user-friendly web application using the MERN stack, the application focused on addressing student mental distress.
- Surveyed the college students through the human resource department and found out the heavy impact of mental issues on the students (mainly after the COVID pandemic), hence collaborated to build a web application that included features like Mindfulness, Daily Task, and Story Space to reduce the mental stress on college students.

RESEARCH PUBLICATIONS

- **"Multi-Constraint Imputation: Analyzing Algorithmic Pairings Using Sequence Analysis for Time-Series Data" -** Accepted in the IEEE conference of IEEE PuneCon 2024.
- **"Bixby Smart Notification" -** Sent to a journal and awaiting acceptance.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, SQL.
Tools: Matlab, GitHub, MongoDB.
Cloud Technologies: Google Cloud.
Web Technologies: ReactJS, CSS, TailwindCSS, ExpressJS, Redux.
Others: DBMS, MQL4, Cassandra, Linux, Lex.

LEADERSHIP & EXTRACURRICULARS

Singularity - The Astronomical Society Bangalore, India
Apr 2022 - Apr 2024

- Led the Astronomical Society of B.M.S College of Engineering, which had over 450+ members as a coordinator alongside 8 other coordinators for 2 years and collaborated with ISRO (Indian Space Research Organization), ABAA (Association of Bangalore Amateur Astronomers), BAS (Bangalore Astronomical Society) among others by conducting events, workshops, industry visits and numerous night sky watching sessions.

- ➢ **AI in space exploration**
  - Coordinated a workshop in collaboration with Spartificial, in which the mentors came and thought about the usefulness of Python and advanced data science in exploring the cosmos.
- ➢ **Telescovia2.0**
  - Coordinated an event in collaboration with ABAA where experienced astronomers brought their high-end telescopes to study the Sun's solar flares, planets, and stars.
- ➢ **Spaceland Intelligence**
  - Coordinated an event in collaboration with ISRO in which the participants were made to understand the intricacies of rocket launch through developing games and understanding in-depth analysis with the ISRO scientist.

AWARDS & ACHIEVEMENTS

Aerothon 2024 – Unscrewed Aircraft System (UAS) Design, Build and Fly Contest

- Secured All India Rank 7 in this national level competition, I worked on object detection using YOLOv8 and autonomous flight of the UAV.
- Received funding of 90,000 Rs/- (1,250 $) from B.M.S College of Engineering to build the UAV.

Radio Telescope

- Built the first Radio Telescope for B.M.S College of Engineering in collaboration with ABAA.
- Receive funding of 20,000 Rs/- (250 $) from B.M.S College of Engineering.
- Tested the telescope on various occasions such as Zero Shadow Day and were published in local newspapers.

IRoC-U

- Participated in ISRO's Robotic Challenge, and secured a position in the top 50.
- Worked on autonomous robot movement and object detection.

CERTIFICATIONS

- **100 Days of Python –** Udemy (Certificate no: UC-4f76818e-1673-4117-8cf8-addc5a47665e)
- **The Complete 2023 Web Development –** Udemy (Certificate no: UC-50e8c800-5427-4fee-a13d-b7d0e7791a9e)
- **Create Machine Learning Models –** Microsoft (Link to the certificate)
- **Google Cybersecurity –** Coursera
- **Algorithm Trading course –** Udemy (Certificate no: UC-e4ff7f72-12b8-442a-8f23-3db23d4c0b85)
- **Algorithmic Trading: Python & Binance –** Udemy (Certificate no: UC-552feb30-9c65-4007-9745-196225c23595)