

GUNDLA PRANAV SWAROOP

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Education

Manipal Academy of Higher Education – M Sc. In Bioinformatics, Karnataka(Manipal) *(Present-2019)*

- **GPA: 8.3; Research Interests:** Artificial Intelligence, Data Science & Analytics Database development, Programming
- **Coursework:** Algorithms & Applications in bioinformatics, Bio-stats, Biocomputing, Database development.
- **Exchange Program (2nd Year)** M2 Bio-health Engineering in University of Grenoble Alpes with fully funded Scholarships from IDEX and UGA Foundation based on merit.
- **Coursework:** Biostatistics & Bioinformatics, Biomarkers and In-Vitro Diagnostics, Methods and Means, Micro and Nano Technologies.

Bharatiya Vidya Bhavans VC of Science, Humanities & Commerce, India(Hyderabad) – BSc. In Maths, Electronics & Computer Science *(June 2018)*

- **Percentage:** 83%; **Topped** with 90% in second semester
- **Coursework:** Numerical Analysis, IOT sensor Usage in real life, Programming (Front-end & Back-end), VHDL, Designing Small scale circuits, Algorithms in Java.
- Conducted research in a wide variety of fields – Theory, Hardware Synthesis, Systems
- Was offered a position by TCS in their Development Div. (Programmer)

Sri Chaithanya Junior College, Telangana(Hyderabad) – 10+2 *(June 2015)*

- **Percentage:** 79%;
- **Coursework:** Maths, Physics & Chemistry for two-year study.

Brilliant Grammar High School, Telangana(Hyderabad) – 10 *(June 2013)*

- **GPA:**8.5;

Scholastic Achievements

- 1st position and won Prize money with a team in hackathon in Bordeaux city (France) conducted by Congr s National Des Pharmaciens.
- 19th position, **Osmania University for M Sc. Computer Science** (State-wide)

Summer Schools

- Conducted by Biohealth Computing School attended Computational Medicine and credited with 6 ECTS as part of curriculum.
- Conducted by Biohealth Computing School attended Precision Oncology and credited with 6 ECTS as part of curriculum.

Internships

- Institute of Applied Biosciences and Signet on “**Initiation of a lung adenocarcinoma cartography around TP53 activity**” presently pursuing this from Jan 07’ 2020 to July 07’ 2020.

Projects

Developed Web-Application: DILIGENCE *(July, 2020)*

Developed an application for Business Development for Head & Neck Squamous Cell Carcinoma(HNSCC) relapses. Verify at: <https://pranavswaroopgundla.github.io/diligence.github.io/>

Project on Real-time data: Biostatistics *(August to December, 2019)*

- Collected data from NCBI which have been Preprocessed and Normalized.

- Dataset GSE3141 Lung Cancer Dataset
- Used R studio for analysis and get information from statistics.

Research Project: Cognitive Neuroscience using MATLAB

(July, 2019)

- Using **Matlab software** to generate the customized code.
- This will help to determine the power spectral analysis and the LFP of the mouse behavior.
- Learning to develop the code for “.abf” files and to develop the power spectral analysis and Fast Fourier Transformations and Heat maps of the mouse.

Research Project: GeneMark

(August, 2018)

- Using **GeneMark database** and how it works.
- The database uses the Hidden Markov chain to determine the reading frames.
- Learned the reading frames alignment and to check whether parallel alignment is present or not.

RADAR System

(August, 2017)

- Using **Arduino UNO** developed the radar system
- The system was able to generate the object detection for 0.5mts. range and give the alarm for warning.
- Learned how the radar system detects the objects through the sensor.

Android App: Bapp (Bhavans Application)

(August, 2017)

- Using **MIT app developing** developed with pre tags.
- The application is developed for complete offline use.
- Learned how the radar system detects the objects through the sensor.

Database Development: College Registration Form

(August, 2017)

- Using **PHP & MySQL** developed a form to store the data.
- This form is used to store the various kinds of data to analyze the stats of the students.
- Learned how to develop the database in real time and implemented using PHP language.

Mobility Ecosystem

(December, 2016)

- Using **Arduino UNO** developed a Line following robot.
- Implemented **Fuzzy Logic Algorithm** technique to reduce the errors in the system.
- The robot can detect the black line and follow that line till end of it without stopping

Research Paper: Life-Saving systems in Indian Railways (Published by: IJARSE)

(December, 2016)

- The aim is to stop the minimum accidents at the **Unmanned Gates**
- **Extracted features** such as object recognition and alarm system with advanced beeping.
- Using machine learning techniques to use the algorithms of ML.

Other Projects

(August 2004– 2008)

- Developed a game called Truth of DOB using ‘**C language**’
- Simulated the small circuits using **VHDL**.

Technical Skills

- **Languages:** Python, R Programming Language, Perl, C, Java, SQL, HTML, CSS, JS, PHP, VHDL, Arduino, Assembly level languages (Microprocessor & Microcontroller)
- **Software's:** Matlab, R Studio, Sage Math, Android Studio
- **Operating Systems:** Linux, Ubuntu, Kali, Windows.

Extra-Curricular Activities

- **Quizzing: Winner** of several **State level** quizzes at cultural festivals such as bhavanotsav (BVC Hyderabad)
- **NSS:** Served for 2 years and achieved the Best Serviceman.
- Won numerous prizes at inter-class level in events like quizzes, word games.

Additional Courses

- Completed course in **Coursera** for **Detecting COVID-19 with Chest X-Ray using PyTorch**. Verify

at: <https://www.coursera.org/account/accomplishments/certificate/CXRS5XPW52TL>

- Completed course in **Coursera** for **Getting and Cleaning Data** by **John Hopkins University**. Verify at: <https://www.coursera.org/account/accomplishments/certificate/TW5ZBMZNAHCY>
- Completed course in **Coursera** for **Google Cloud Product Fundamentals** by **Google Cloud**. Verify at: <https://www.coursera.org/account/accomplishments/certificate/T767MN937XX4>
- Completed course in **Coursera** for **AWS: Publish a NodeJS Website from Scratch**. Verify at: <https://www.coursera.org/account/accomplishments/certificate/E28VQUHWDW62>
- Completed course in **Coursera** for **Bioinformatics methods – I** by **University of Toronto**. Verify at: [coursera.org/verify/YJMDZR5DJJ3S](https://www.coursera.org/verify/YJMDZR5DJJ3S)
- Completed course in **Coursera** for **Command Line tools for Genomic Data Science** by **John Hopkins University**. Verify at: [coursera.org/verify/QP8JRWFF9HKC](https://www.coursera.org/verify/QP8JRWFF9HKC)
- Completed course in **Udemy** for **Python for Absolute beginners** by **Green Chameleon Learning**. Verify at: www.udemy.com/certificate/UC-3035WCL3

Other Interests

Movies, Photography, Reading, Cooking, Traveling & Music