



Academic Details			
Year	Degree	Institute	CGPA/ Marks(%)
2021	M.Tech Biomedical Engineering(TA)	Indian Institute of Technology Hyderabad	8.91
2018	B. Tech Electronic Instrumentation and Control Engineering	Government Engineering College, Ajmer	72.76%
2014	XII (Board of Secondary Education, Rajasthan)	SJ SR SEC SCH, Kota	68.8%
2012	X (Board of Secondary Education, Rajasthan)	JVP SEC SCH, Barmer	75%

Achievements	
<ul style="list-style-type: none">Secured 6th merit in B. Tech (Electronic Instrumentation & Control Engineering) in Rajasthan Technical University, Kota.Secured All India Rank 503 in Instrumentation Engineering GATE (Graduate Aptitude Test Engineering) 2019.Scholarship awarded by MHRD funds as a Teaching Assistant in the master's program, IIT Hyderabad.	

Work Experience	
Data Analyst Intern, BlitzJobs:	Jun20 - Aug20
<ul style="list-style-type: none">Conversion of Business problem to Data Science problem.Data collection, cleaning, exploratory data analysis, a literature survey on various machine learning algorithms, and building a model to predict potential clients.Presenting insights and a new strategy to the Stack holders.	
Graduate Teaching Assistant, IITH:	Sep20 - present
<ul style="list-style-type: none">Responsible for assignment design, collection, and hands-on tutorials for Scientific Computing and Introduction to Brain & NeuroScience.	
Smart Village Movement (SVM), UC Berkely & Janitri:	Sep20 - present
<ul style="list-style-type: none">Creating healthcare ecosystem model to reduce Meghalaya's maternal mortality rate under the guidance of Dr. Solomon Darwin and Dr. Anil Shah.Research on causes, prevention, early diagnosis, recovery, and positive health.	
Thermal Power Plant Operator Intern, SSTPS:	May17 - Jul17
<ul style="list-style-type: none">Worked at Suratgarh Super Thermal Power Plant (SSTPS) of Rajasthan Rajya Vidyut Utpadan Nigam Ltd(RVUNL) in various areas concerning thermal plants such as Coal handling, Boiler section, Ash handling, a Turbine section, and many more instruments used for a thermal plant.	

Projects	
Master's Thesis:	Jul20- present
<ul style="list-style-type: none">Creating simulations of movements in the upper limb by controlling the spinal cord circuits using the NEUROmotor integration and Design (NEUROid) platform developed by our Lab (Spinal Cord & Movement Lab) at IITH under the guidance of Dr. Mohan Raghavan.	
Real-Time Tachycardia and Bradycardia Arrhythmia Detection:	Oct19 - Nov19
<ul style="list-style-type: none">Heart rate monitoring and arrhythmia detection in real-time using a three-lead ECG system deigned on board using instrumentation amplifiers, LabView for the signal processing, alarm generation for an emergency condition under the guidance of Dr. Kousik Sarathy.	
Synchrony Detection in Lower Limbs:	Apr20 - May20
<ul style="list-style-type: none">Eight-channel EMG data is recorded from different pairs of muscles in the lower limbs during various exercises and processed in python to show the muscle activity and their correlation to each other under the guidance of Dr. Mohan Raghavan.	
Image Reconstruction :	Feb20 - Apr20
<ul style="list-style-type: none">Reconstruction of Shepp–Logan phantom using various algorithms like Back Projection(BP), Filtered Back Projection (FBP), and Simultaneous Iterative Reconstruction Technique (SIRT) to improve the quality of the reconstructed image under the guidance of Dr. Renu John (HOD, BME)	
Natural language Processing:	
<ul style="list-style-type: none">IMDB Movie reviews sentiment classification using various Supervised algorithms with suitable Hyper parameters.Twitter data from kaggle for sentiment analysis during covid-19 outbreak.News Article Clustering Using Unsupervised Learning.	

Bank's Marketing Campaign Analysis:

- Prediction of the client's subscription for a long term deposit based on the analysis of the marketing campaigns.
- Prediction of the loan approval status of a new new client.

Temperature Transducer Trainer kit:

- Designed a Temperature Transducer Trainer kit to study characteristics of 4 types of temperature transducers on a single board for **Sensors and Transducers Lab** at GEC, Ajmer under the guidance **Dr. J.K. Deegwal** (HOD, EI&C)

Jan18 -
Apr18

3D Print of Prosthetic Tooth:

- Autodesk Inventor and 3D printed, improved design, improved osseointegration, antibacterial coating, displacement measurement of implanted using a magnetic sensor.

Skills

Programming Languages: Python, C (Basic), SQL, hoc, Ladder logic

Tools & Frameworks: NumPy, pandas, Matplotlib, scikit-learn, Tensorflow, VS Code, git, HTML, CSS, LaTeX

Software: MATLAB, LabVIEW, Tina-TI, NEUROiD, NEURON, OpenSim, Wonderware InTouch, RSLogix Micro

Hardware: NI ELVIS II, Bolt IoT, PLC(Siemens S-1200, Allen Bradley Micrologix-1000), Control Panel designing.

Relevant Courses

- **Advance Machine leaning & Signal Processing** authorized by IBM and offered through Coursera N4L6DY9FF5CD
- **SQL for Data Science** authorized by University of California, Davis and offered through Coursera DV6C6U6N9GF3
- **Python for Data Science** offered through GREYATOM GA-1BH1N52YH

Areas Of Interest

- Computational & Cognitive neuroscience
- Natural intelligence & Artificial intelligence
- Data Science & Machine Learning

Positions of Responsibility

SunShine (Guidance and counseling Department) **PG-Mentor** at IIT, Hyderabad.

2019 - Present

Extracurricular Activities

- Won first prize in **Treasure Hunt**, IITH
- Selected as a volunteer in the "**TECHNOTSAV - 2k16**" as well as coordinator in "**TECHNOTSAV -2k17**" conducted by Govt. Engineering College Ajmer.
- Selected as a volunteer in the "**COMBAT - 2k15**" as well as coordinator in "**COMBAT- 2k16**" conducted by Govt. Engineering College Ajmer.
- Participated as a volunteer in the "**Ability Fashion Walk**" for special children of Minu Manovikas Mandir Inclusive School, Ajmer.

Hobbies

Chess, Farming, traveling, Music