

COLLEGE OF ENGINEERING, PUNE

(An Autonomous Institute of Govt. of Maharashtra)
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1) Personal Details:

Name: Shruti Pratap Lad

M.Tech (Electronics and Telecommunication- Wired and Wireless Communication)
College of Engineering, Pune

Date of Birth - 12th February 1993

Address - Saiprasad Apt, Right Bhusari Colony, Paud road, Kothrud, Pune

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2) Educational Qualifications:

Sr.No	Examination	Institute/School	Percentage/CGPA		Years
1	M.Tech	College of Engineering, Pune	S.Y.	SGPA II-9 SGPA I -8 CGPA-7.86	2017-2019
			F.Y.	CGPA-7.25	
2	B.E.	Rajarambapu Institute of Technology	63%		2010-2014
3	H.S.C.	Willingdon College, Sangli	77.33%		2009-2010
4	S.S.C.	Kirloskar Highschool	93.07%		2007-2008

3) Conference Paper Selected for: - IEEE ANTS- Dec 2019

Paper: Shruti Lad, "An Online Algorithm for Energy Harvesting Cognitive Radio IoT Network",
IEEE Advanced Networks and Telecommunications Systems (ANTS), Dec-2019

4) Experience:

- 1) Java Intern** : From Nov-2019 to Feb-2020 at Predikly Technologies Pvt. Ltd., Pune
 - Worked on the development of web based application using Java and related technologies.

- 2) Worked at Teksons Stabilizer, Sangli from June-2015 to July-2017
- Part-time work in developing and manufacturing processes of voltage stabilizers.

5) Projects:

a) **M.Tech final year project - Title: Design and Analysis of Resource Allocation Algorithm for CR-IOT Applications using Television White Space Spectrum (TVWS)**

- Increase in Internet of Things (IoT) applications rise the demand for more wireless connectivity. One of the promising solutions is to utilize the unused TVWS spectrum.
- We proposed an online algorithm for ECTNO network to optimize the cost with respect to QoS parameters: Data quality and Transmission delay. There is trade-off between total system cost and QoS parameters. The performance of our online algorithm is seen to be consistent with the optimal algorithm in non energy harvesting case.

b) **M.Tech (F.Y.) Mini-projects:**

- IoT- Data Analysis using Python
- Wireless Sensor Network (WSN)- Forest fire detection using temperature sensor LM-35

c) **B.E final year project - Title: e-Billing bucket in mega mall using Zigbee technology and microcontroller 8051**

An e-billing bucket will consist of barcode scanner and LED Display. Customer will purchase product from mall and scan the product on bucket itself before placing into it. The total of all purchased items will get displayed to counter directly with help of Zigbee module having microcontroller 8051. This will avoid queues of customers at counter and will save the time and will be beneficial for customer.

6) Workshops:

- BSNL workshop: a) Broadband b) GSM Technology c) Transmission Media
- Electronics Circuit Simulation and PCB Design

7) Courses Offered:

1. Artificial Intelligence
2. Internet of Things
3. Computer Networking

8) Technical Skills:

a) **Programming & Key Skills:**

1. C, C++, Embedded C
2. Data Structures and Algorithms
3. Java:
 - a) Core Java
 - b) Web APIs (REST API)
 - c) Frameworks- Spring, Spring Boot, Hibernate, JPA
4. Python
5. HTML5, CSS3
6. JavaScript
7. SQL, PostgreSQL
8. Machine Learning

9. Communication Technologies: a) Mobile Communications
b) Wireless Sensor Networks
c) Antenna Radiating Systems

b) Tools:

1. Postman, IntelliJ Idea, Eclipse
2. QualNet
3. MATLAB
4. Arduino IDE
5. MySQL
6. Anaconda - Jupyter

9) Scholarships/Awards/Achievements:

- First rank holder at Taluka-Level in SSC Examination 2008
- Meritorious Performance in Maharashtra Talent Search Examination MTS 2006
- Meritorious Performance in Maharashtra Talent Search Examination MTS 2007
- Won "Ideal Student of the Year 2008"
- National level certification for "Idea Presentation" 2014

10) Extra-curricular activities:

- Diploma in Interior Designing year 2016-2017
- Special Award for Best Dance at 'Antarang' event held at COEP in 2019
- Winner of State-Level Throw ball Championship-2007
- Winner of State-Level Soft ball Championship-2007
- Won First-prize in District Level Youth Festival in Lokakala - 2012,2013
- Winner of Chess Competition held at R.I.T. in 2013

11) Self Assessment:

- Hardworking, Creative, Good communication & presentation skills

12) Hobbies:

- Painting, Playing Chess, Dancing

13) Declaration:

I undersigned hereby declare that the information furnished above is true to the best of my knowledge.

Name & Signature

Place & Date