

Khushal Modi

BITS PILANI K. K. BIRLA GOA CAMPUS, Goa, India
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EDUCATION

Birla Institute of Technology and Science (BITS) PILANI K. K. BIRLA GOA CAMPUS, Goa, India

- Bachelor of Engineering (Honours) in **Computer Science** Aug 2014 – current

MK Higher Secondary School, Gujarat Law Society, Ahmedabad, India

- Grade XII, Gujarat Board, 87% Jun 2012 – Jun 2014
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RESEARCH EXPERIENCE

BITS PILANI K. K. BIRLA GOA CAMPUS, Goa, India

- (ongoing) Undergraduate Research Student, Computer Science Department Aug 2016 – current
 - **Title:** Investigations on the Google Pagerank algorithm.
 - **Supervisor:** **Professor Bharat M. Deshpande**, Head Of Department, Computer Science Department, BITS PILANI K.K. BIRLA GOA CAMPUS.
 - **Research areas:** Mathematics of Pagerank algorithm and how to add features and customize Pagerank according to user preferences.
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WORK EXPERIENCE

Spree 2017, annual sports festival of BITS GOA, Goa, India

- **Back-end Developer** Oct 2016 – current
 - **Work:** Designed and implemented data storage solutions, Contributed creative ideas for front-end, Collaborated with front-end engineers, Designed services and features to support the front-end and Collaborated with co-workers to establish back-end conventions, principles, and patterns
 - **Skills Learned:** PHP, Mysql, Html and Javascript.
 - **Other Skills Learned:** Leadership (leading a team of 3 developers), Managerial skills.

Adani Power, Ahmedabad, Gujarat, India

- **Software Development Intern** May 2016 – Jul 2016
 - **Project Title:** Given the current temperature data of the power plant, Using predictive analysis, predict the chance of occurrence of any accident in the power plant and identify if any sensor is sending incorrect data, also develop an android application to monitor the real time data and alert Adani Power if there are chances of any accidents.
 - **Supervisor:** **Mr. Sandeep Dixit**, Associate vice president, Adani Power Ahmedabad.
 - **Technical Skills learned:** Machine learning and Neural Networks, Android application development and R.
 - **Other Skills learned:** Effective Public Speaking, Presentation skills.
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ACADEMIC PROJECTS

MicroProcessors and Interfacing

- **Project Title:** Simulate an automated washing machine in proteus using intel 8086 IC
- **Skills Learned:** Proteus simulation, Assembly programming(x86)

Digital Design

- **Project Title:** Design a serial 2's complement generator using JK flip-flops and appropriate combinational gates. Data input is 4-bit serial and from LSB onwards and the circuit should return to initial state after 4-bit conversion has been completed.
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SKILLS	<ul style="list-style-type: none"> ▪ Proficient at C, C++, Python ▪ Comfortable working with Mysql, Java, PHP, HTML and Assembly language(x86) ▪ Basics of Javascript, Angular JS and R ▪ Worked on Proteus, MASM, Verilog, Android Studio and Xilinx
ELECTIVES	<p>Completed: Cryptography, Effective Public Speaking, cultural studies</p> <p>Current: Machine Learning, Software Development for Portable Devices</p>
ACHIEVEMENTS	<p>Quark'16</p> <ul style="list-style-type: none"> ▪ Awarded 1st prize in Quark, a combustion based tank building competition at BITS PILANI K. K. BIRLA GOA CAMPUS Feb 2016 <p>Indian Institute of Technology(IIT)</p> <ul style="list-style-type: none"> ▪ Ranked in top 0.1% out of total 15 lacs students participating from all over India. May 2014
CAMPUS ACTIVITIES	<p>Department of Photography and Videography, BITS PILANI K. K. BIRLA GOA CAMPUS</p> <ul style="list-style-type: none"> ▪ Member Aug 2014 – Aug 2015 <ul style="list-style-type: none"> • Covering campus festivals. • Leadership (Managing a group of juniors)
LANGUAGES	<ul style="list-style-type: none"> ▪ Gujarati: Native language. ▪ English: Fluent (speaking, reading, writing)-First language at school. ▪ Hindi: Fluent (speaking, reading, writing).
INTERESTS	Digital photography, guitar, swimming.