Dr. Krunal Patel

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Country: India

ABOUT ME

- Detail oriented and task-centric with strong analytical skills
- Proficient in designing, implementing and troubleshooting
- Great team player who easily adapts to rapidly changing requirements

EDUCATION

PhD in Computer Engineering, C. U. Shah University, India	**2019**
ME in Computer Engineering, Gujarat Technological University, India	**2011**
BE in Information Technology, S. P. University, India	**2008**

PROFESSIONAL EXPERIENCE

Assistant Professor GCET Engineering **Responsibilities in GCET**	**2019-Present**

- TCS Coordinator for online exam Conducting for various Government Exams(NTA).
- Coordinator for Government Scheme - Mukhyamatri Yuva Swavlamban Yojna [MYSY]
- NSS Committee Member
- Computer Society of India (CSI) Member
- Internal Quality Assurance Cell – Member
- Training and Placement – Member for Infosys Training
- Coordinator for various certification courses
- Industrial consultancy Cell (ICC)

• Joint Research Committee at CVMU representative from GCET College • Minor Degree under CVMU Member from IT department, GCET • Computer Programing Syllabus Designed • Python Course • Web Development Course • Certification Course Committee Member for GCET • Internal Quality Assurance Cell (IQAC) • NSS Cell - GCET • Admission Committee Member - GCET • Abroad collaboration • UMT – University of Tirana, Albania • Indo – Japan Collaboration, Tomio Isogai	
Assistant Professor MBIT Engineering **Responsibilities in MBIT**	**2011-2019**
• Gujrat Technological University (GTU)-coordinator-University Examination Handling • Credit System In charge • Chief-coordinator of Open Source Technologies Club – MBICT(GTU) • NSS Committee Member • ISTE committee member – MBICT • Computer Society of India (CSI) Member • Internal Quality Assurance Cell – Member • Training and Placement – Member • Gujrat Technological University (GTU)-coordinator-University Examination Handling • Credit System In charge • Chief-coordinator of Open Source Technologies Club – MBICT(GTU) • NSS Committee Member • ISTE committee member – MBICT • Computer Society of India (CSI) Member • Internal Quality Assurance Cell – Member	

Ad-Hoc Lecturer B.V.M ENGINEERING COLLEGE	**2009-2011**
Visiting Lecturer B.V.M ENGINEERING COLLEGE	**2008-2009**

TECHNICAL SKILLS

- **Programming Languages:**
  - C#, ASP.NET, JAVA, MATLAB, Python Programming, Swift, Linux commands.

- **Web Technologies:**
  - HTML, CSS, XML, Web Services, JavaScript, and VBScript, PHP, ASP.NET.

- **Databases:**
  - MySQL, Oracle, MongoDB

- **Development Tools:**
  - Visual Studio, Eclipse, NetBeans, IntelliJ IDEA, Git, WordPress, VS Code, XCode, Android Studio, Notepad++.

- **Frameworks:**
  - Ionic, Hadoop.

- **Mobile Application Development:**
  - Android, iOS

- **Other Skills:**
  - MS Office, Basic Networking

RESEARCH AREA

- Computer Vision, Machine Learning, Image Processing, Artificial Intelligence, Neural Network, Natural Language Processing, Big Data

PROJECTS

1. **Satellite Image Processing – [BE]:**
   I develop software, allows to captured images by satellite, which are not compatible in normal views. We can apply image enhancement algorithms to get useful information

2. **3D model generation using 2D Image – [ME]:**
   Develop model, which can create 3D images from 2D

3. **Robust and Secured Digital Audio Watermarking – [PhD]:**
   Develop software which can hide the binary image into the audio file for copyright purposes and secret communication can be achieved in defense military system

ACHIEVEMENTS

- **Award of Excellence** by The International Association of Lions Clubs District: 3232f1 Region-V
- **In-charge Head of Department** - CSE Department
- **Technical Festival Head** of Adhishthan-2018
- **Technical Head** of Adhisthan-2019
- **Configured Moodle For LMS** at Waymade College
- **Reviewer at IEEE Signal Processing Society**, IEEE Transactions on Audio, speech and Language Processing.
- **Designed a PG course** for **Big Data Analytics and its applications**
- **Designed a Certification Course** for EC Branch – **Android Things**
- **Configured Microsoft Teams** for online education at GCET & NVPASS Collage

RESEARCH PAPER PUBLISHED IN INTERNATION JOURNALS

- An Application of R-Tree in Banking System
  02/2010
- 3D Model Reconstruction from Single View Techniques   **04/2011**
- A New Perspective in Steganography Technique   **06/2014**
- 3D model reconstruction from single View   **02/2014**
- A Survey on Emotion Based Music Player   **08/2016**
- Robust Audio Watermarking using Improved DWT-SVD approach
  08/2017
- Robust and Secured Digital Audio Watermarking Algorithm   **08/2017**
- Performance Evaluation of Digital Audio Watermarking   **08/2018**

BOOK PUBLISHED

- Dr. Krunal N Patel, "ROBUST AND SECURED DIGITAL AUDIO WATERMARKING USING A DWT-SVD-DSSS HYBRID APPROACH", Springer Jan, 2020.

CONTRIBUTION TO INSTITUTE/RESEARCH PROPOSAL

Sr. No.	Project Title	Date Initiated	Funding Agency	Total Amount (Rs.)
1	Applied for MODROB grant in AICTE	22nd Aug, 2019	AICTE	19,35,000/-
2	Application of MATLAB for different Engineering Disciplines	18th & 19th June, 2019	GUJCOST	60,000/
Applied Various grants earlier but not got the response				
1	A Project Proposal for Block Level Programs in Health, Co- Operatives and Support to Women in Gujarat	1/04/2014	DST – (Women's Technology Park)	13,83,849/-
2	Workshop on Big data analytics using Hadoop	7/10/2016	GUJCOST	1,15,000/-
3	Python Programming for Machine Learning and Deep Learning	24/12/2020	GUJCOST	4,55,000/-