Harshil Kanakia

Professor

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SUMMARY

I am an accomplished Professor with 14+ years of experience at Sardar Patel Institute of Technology. I hold a Master's in Computer Engineering and an Executive PG in Data Science. As an Assistant Professor, I have trained students in various technical subjects and played crucial roles in improving institute rankings. I have published numerous research papers and authored patents in areas like sentiment analysis, AI-powered systems, and data analysis. I possess strong technical skills including programming languages like Python, databases, and data visualization tools.

EDUCATION

Executive PG in Data Science (Data Generalist)   Oct '21 - Nov '22

IIIT Bangalore & upGrad   Bengaluru, IN

Secured 3.58 / 4

Master of Computer Engineering   Jul '12 - Jan '15

Sardar Patel Institute of Technology   Mumbai, IN

Secured 8.96 / 10

Bachelor of Computer Engineering   Jul '06 - Jun '09

Sardar Patel Institute of Technology   Mumbai, IN

Secured 71.67% aggregate

Diploma in Computer Engineering   Jun '03 - May '06

Mah. State Board of Technical Education   Mumbai, IN

Secured 82.56%

KEY PROJECTS

Domain: Web and Social Media Analytics| Tech Stack: Python, Tableau | Nov '22
- **Objective**: A US Mobile Manufacturer wanted to know sentiment of the reviews and design the marketing strategies in order to improve their business
- **Solution**: Designed **Multinomial Naive Bayes Algorithm** to identify the sentiments of mobile user's reviews and a Dashboard about trends of the mobiles
- **Key Achievement:** Developed a Model with an **Accuracy Score of 85%**

Domain: Twitter Sentiment Analysis| Tech Stack: Python | Jul '14
- **Objective**: Identify the sentiment of a tweet and derived top 10 positive and / or negative tweets
- **Solution**: Designed **Naive Bayes Algorithm** to predict positive or negative sentiment of a tweet and **Ranking Algorithm** to identify top 10 positive and / or negative tweets
- **Key Achievement**: Developed a model with an **Accuracy score of 79%**

PROFESSIONAL EXPERIENCE

Assistant Professor   Jul '09 - Present

Sardar Patel Institute Of Technology   Mumbai, IN

- Trained students on Data Structures using **C++, SQL** Database, **PL/SQL**, **Automation Anywhere**
- Worked as **Institute NAAC and Department NBA Coordinator** for improving the ranking of the Institute.
- Worked as an **Internal Quality Assurance Coordinator** for improving the teaching learning quality for the Institute
- **Managed a team** of Industry experts to carry out the seminars for the students at the Institute
- Cooperated in various seminars and workshops by **excellent presentation skills**
- Coordinated in designing the **Curriculum** of MCA Program for the Institute
- Coordinated in designing the **Question Papers** of MCA Courses for the Institute.
- Designed the **Admission Portal**, Micro Specialization Course Portal for the Institute
- Contributed in maintaining the **Institute Portal** using WordPress, HTML, CSS, JavaScript and WP Forms
- Established strong connect with Alumni for understanding the **recent industry trends**

KEY SKILLS

• Training   • Mentoring   • Problem Solving   • Quality Assurance   • Multitasking   • Process Improvement   • Presentation Skills
• Data Visualization • Analytical Skills

TECHNICAL SKILLS

Tools/Languages: C, C++, Python, SQL, PL/SQL, Tableau, HTML, CSS, JavaScript, Automation Anywhere, UI Path
Database: Oracle 11g/18c/19c, MySQL, MongoDB, PostgreSQL, Apache Cassandra
MS Excel

PAPER PUBLICATION

- Viraj Dhumal, Tejas Chalke, Harshil T. Kanakia, "Sentiment Analysis of Social Media Comments", 9th International Conference for Convergence in Technology (I2CT), In proceeding
- Mihir Shirsath, Rushikesh Giri, Harshil T. Kanakia, "YouTube Comments Sentiment Analysis", 9th International Conference for Convergence in Technology (I2CT), In proceeding
- Rushikesh Gavhane, Avishkar Ghorpade, Harshil T. Kanakia, "Adaptive Linux OS Theme Selection using Deep Learning for User Mood Enhancement", 9th International Conference for Convergence in Technology (I2CT), In proceeding
- Harsh Jain, Yash Koyande, Harshil T. Kanakia, Sakina Salmani, "Secure Authentication via Encrypted QR Code", 9th International Conference for Convergence in Technology (I2CT), In proceeding
- Jay Oswal, Devvrat Suktel, Harshil T. Kanakia, "Transforming Software Requirements into User Stories with GPT 3.5 : An AI Powered Approach", 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT 2024), DOI: 10.1109/IDCIoT59759.2024.10467750
- Prashant Gowda, Sakshi Naik, Harshil T. Kanakia, "Spiremetrics: An integrated approach for student feedback and sentiment prediction", 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT 2024), DOI: 10.1109/IDCIoT59759.2024.10467339
- Shrijeet Yeole, Aryan Shende, Harshil T. Kanakia, Sakina Salmani, "Comparative Analysis of SVM, Decision Tree, Random Forest for Crop Recommendation", 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT 2024), DOI: 10.1109/IDCIoT59759.2024.10467414
- Shivani Eranjikal, Harshil T. Kanakia, "Trip Saathi : Travel Planning System based on Sentiment analysis of Reviews", 2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC), DOI: 10.1109/ICESC57686.2023.10193468
- Suraj Nair, Harshil T. Kanakia, "Designing User-Friendly and Responsive AI based Image Generation Website and Performing Diversity Assessment of Generated Images", 2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC), DOI: 10.1109/ICESC57686.2023.10193269
- Shristi Bisht, Harshil. T. Kanakia, "Music Emotion Prediction based on Hybrid Approach Combining Lyrical and Acoustic Approaches," 2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 2022, pp. 1656-1660, doi: 10.1109/ICICCS53718.2022.9788423.
- Harshil T. Kanakia, Pallavi Thakur, Vishal Parab, Shivam Chaubey, Manish Jha, Helping Hand: Metro Travel Assistance App for Elderly and Differently Abled People (May 5, 2022). Available at SSRN
- Sayali Kamble, Diksha Bandagale and Harshil T. Kanakia, "Analysis Of Mental Health During COVID-19 Pandemic," 2021 5th International Conference on Information Systems and Computer Networks (ISCON), Mathura, India, 2021, pp. 1-5, doi: 10.1109/ISCON52037.2021.9702414.
- Harshil T. Kanakia, Pooja Raundale, Ryan Britto and Rohit Sawardekar, "Analysis of Social Networks using Naive Bayes," 2019 International Conference on Intelligent Computing and Control Systems (ICCS), Madurai, India, 2019, pp. 88-91, doi: 10.1109/ICCS45141.2019.9065467.
- Harshil T. Kanakia, Giridhar Shenoy, Jimit Shah,"CAMBRIDGE ANALYTICA - A CASE STUDY Indian Journal of Science and Technology International Conference on Recent Trends in Engineering Technology and Management (ICRETM) Coimbatore, India pp. 1-5, DOI: 10.17485/ijst/2019/v12i29/146977
- Alisha Nalavade, Divya Rawat and Harshil T. Kanakia, "Blockchain Technology: Most Secure Database," 2018 Second International Conference on Intelligent Computing and Control Systems (ICICCS), Madurai, India, 2018, pp. 1356-1362, doi: 10.1109/ICCONS.2018.8663010.
- Devang ,Taiyeeba , Dr. Pooja Raundale,Harshil T. Kanakia,Jan2021. "Counting repetitions using Sensor", International Journal for Research in Applied Science and Engineering Technology (IJRASET),
- Harshil T. Kanakia, Varun Laxman Bhandarkar, April 2016, "Open Problems on Generic Computer Virus Recognition", International Journal on Recent and Innovation Trends in Computing and Communication, PP.593-598. ISSN: 2321-8169 Volume: 4 Issue: 4
- Harshil T. Kanakia, Ravishankar Singh, Pratik Sunil Jadhav, April 2016. "Data Visualization", International Journal on Recent and Innovation Trends in Computing and Communication, PP. 589-592. ISSN: 2321-8169 Volume: 4 Issue: 4
- Harshil T. Kanakia, Vrushal Rathod, Sanman Chavan, April 2016. "Qualitative Data Analysis, Tools and its Implementation", International Journal on Recent and Innovation Trends in Computing and Communication.PP. 608-611. ISSN: 2321-8169 Volume: 4 Issue: 4
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Harshil T. Kanakia, Prerna Dhiman, Mrunmai Champanerkar, April 2016. "Access Field Communication using NFC", International Journal on Recent and Innovation Trends in Computing and Communication,PP.828-829 ISSN: 2321-8169 Volume: 4 Issue: 4

- Harshil T. Kanakia, Raj Shah, Premjith Retnakumar, April 2016, "Comparison of Business Intelligence Tools along with their Architectures and Components", International Journal on Recent and Innovation Trends in Computing and Communication, PP. 585-588. ISSN: 2321-8169 Volume: 4 Issue: 4
- Harshil T. Kanakia, Dr. Dhananjay Kalbande, "Twitilyzer : Designing an approach for ad-hoc search engine", 2015 International Conference on Communication, Information & Computing Technology (ICCICT), **DOI:** 10.1109/ICCICT.2015.7045716
- Harshil T. Kanakia, May 2014, "Report Generation using Business Intelligence Tools: A comparative Study". International Journal of Advanced Research in Computer Science, 5, DOI: https://doi.org/10.26483/ijarcs.v5i5.2145S

CERTIFICATIONS

- **Python for Everybody** | 2020 | University of Michigan | Coursera
- **DBMS** | 2019 | IITKGP | NPTEL

ADDITIONAL INFORMATION

- Published 2 Short Term **Patents** in 2019 and 1 in 2015**.**
- **Languages**: English (Proficient), Hindi (Proficient), Marathi (Intermediate), Gujarati (Proficient)