

## PURVI JOSHI

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### TECHNICAL SKILLS

**Programming Languages** : Python, Java, C, C++, HTML, CSS, JavaScript, Shell Script, J2ME, SQL

**Libraries** : Numpy, Pandas, sklearn, PySpark, Matplotlib, Seaborn, NLP libraries - nltk, spacy

**Databases and Tools** : MySQL, PostgreSQL, Oracle, SQL Server, Weka, Rapidminer

### PUBLICATIONS

- Purvi Rekh, Amit Thakkar [Semi-Supervised Text Classification using Naïve Bayes and Support Vector Machine](#), International conference in Computing, Information, Communication And Applications, V-3, Elsevier proceedings 2014. ISBN: 9789351072638
- Purvi Rekh, Amit Thakkar, [Semi-Supervised Text Classification](#): A new extension for Rapidminer, proceedings of the 5<sup>th</sup> Rapidminer World 2014, pg-73-88, ISBN:9783844029468

### SUMMARY

- Strong mathematical knowledge and hands on experience in implementing Machine Learning algorithms like K-Nearest Neighbors, Logistic Regression, Linear regression, Naïve Bayes, Support Vector Machines, Decision Trees, Random Forests, Gradient Boosted Decision Trees, Stacking Models
- Experience in Machine learning Unsupervised algorithms such as K-Means, Density Based Clustering (DBSCAN), Hierarchical Clustering and strong knowledge on Recommender Systems
- Extensive working knowledge of python with numpy, pandas, sklearn, PySpark, matplotlib, seaborn, nlp libraries - nltk, spacy
- Developing a chat bot which understands if person is feeling lonely or not and if a person is classified as feeling lonely, it suggests a person's favourite songs, favourite movies, favourite foods and favourite places to visit depending upon current weather and time
- Experience coding with Object Oriented Programming using C++, Java and Python
- Experience with relational database and SQL
- Expertise teaching concepts of Data structures and algorithms

### EXPERIENCE (1 year as software developer, 8 years as professor / lecturer / instructor)

**De Anza College, Cupertino, California**      **JUNE '18 - JULY '18, JUNE '19 - JULY '19**

#### Python Instructor

- Teaching concepts programming with Python like input/output, data structures, if-else, loops, functions, modules, turtle graphics module, Tkinter GUI Programming and object oriented programming to middle school students for summer Enrichment program (College for Kids)

**Assistant Professor, SCET, Surat, India****JULY '14 - JULY '17**

- Conducted lectures and laboratory sessions for subjects like Python, Data mining, Data Structure and algorithms, C++, Java, Compiler Design, Operating System, Theory of Computation, Parallel Processing
- Mentored machine learning research project of masters students in the area of NLP
- Improved final result of students by performing result analysis using pandas which helped analysing relation between student's attendance, their mid exam results with final result
- Mentored as class teacher solving different issues of students
- Coordinator of Design Engineering course which involves developing creative thinking in students

**Teaching Assistant , SVNIT, Surat, India****FEB '14 - JULY '14**

- Conducted lectures and laboratory sessions for DBMS and SQL using PostgreSQL

**Assistant Professor, CGPIT, Bardoli, Surat, India****JULY '12 - FEB '14**

- Conducted lectures and laboratory sessions for Data mining, Data structure, C++, Java, Theory of computation, Compiler Design
- Coordinators of syllabus design, exam committee and website maintenance committee
- Worked as Coordinator of various annual Technical events

**Lecturer, SCET, Surat, India****AUG '08 - AUG '10**

- Conducted lectures and laboratory sessions for C, Data structure, Java, Theory of computation, Compiler Design
- Developed web based application using asp and MySQL for leave management which automated process of applying and approving leave saving lots of time for all staff members of the institute

**Software Developer, Avinashi System Pvt Ltd, Surat, India****AUG '07 - AUG '08**

- Worked in all phases of software engineering by collecting requirements, coding and testing. Created user profile to maintain user's personal information and handled friend requests and messages for social networking website using Action Script CS3 with object oriented programming

**EDUCATION**

Charotar University of Science and Technology, Changa, Gujarat, India

**SEP '10 - JUNE '12**

- **Master of Technology, Computer Engineering**

Sarvajanik College of Engineering and Technology, Surat, Gujarat, India

**SEP '03 - JUNE '07**

- **Bachelor of Engineering, Information Technology**