Sanket Deshmukh

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OBJECTIVE

To take up new challenges to utilize my knowledge and intelligence for personal and organization's growth

EDUCATION

UNIVERSITY OF UTAH
MS IN COMPUTER SCIENCE
Expected May 2018 |
Cum. GPA: 3.88 / 4.0

VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE
B TECH IN ELECTRONICS AND TELECOMMUNICATION
May 2014 | Pune, India
Cum. GPA: 9.25 / 10.0
HONORS IN EMBEDDED SYSTEMS DESIGN
May 2014 | Pune, India
Cum. GPA: 9.40 / 10.0

SKILLS

PROGRAMMING
Python (Pandas, SkLearn, PyQt, TensorFlow, Numpy) • ShellScript • C •SQL(SQLite,MySQL)• MATLAB • Core Java • R • JavaScript • HTML • CSS • Ruby • Rails
OPERATING SYSTEMS
Linux • Windows
VERSION CONTROL
• **Git**
CI PLATFORM
Jenkins CI • Travis CI
SOFTWARE TOOLS
QtDesigner • Microsoft Excel • IPython Notebook • VM player
LANGUAGES
English • Hindi • Marathi

LINKS

Github:// sanketd11
LinkedIn://in/sanket-deshmukh-1b85b756

COURSEWORK

GRADUATE
Machine Learning
Distributed Systems
Advance Algorithms
Data Mining
Natural Language Processing

UNDERGRADUATE
Data Structures and Algorithms Computer Architecture & OS Embedded Systems
Digital Image Processing

EXPERIENCE

UNIVERSITY OF UTAH | GRADUATE RESEARCH ASSISTANT | Mar 17 – Present

- Designed and Developed an UI for analysis of Multi Angle Snowflake Camera (MASC) data products using Python and Qt GUI library
- Refined image processing based algorithm and documentation of the MASC hydrometeor identification
- Implemented 'Neural Network' based hydrometeor identification which increased the accuracy to 91% from the previous 84%

MU SIGMA BUSINESS SOLUTIONS | DECISION SCIENTIST | Aug 14 – Jun 16 | Bangalore, India

QA and Automation | CASPERJS, SLIMERJS, SHELL SCRIPT, PYTHON

- Designed and developed automated test suites to be used UI and Functionality testing for a web based IDE 'RCloud' using CasperJS and SlimerJS.
- Automated 'RCloud' testing with Jenkins CI and Travis CI

Data Analysis (Natural Language Processing) | PYTHON

- Implemented LSA (Latent Semantic Analysis) for similarity analysis of text documents
- Developed grammar files for masking sensitive data (telephone number, credit card number, SSN number, etc.) to be used with OpenFST for Continuous Unstructured Data Anonymization

PROJECTS

SENTIMENT CLASSIFICATION OF TRAVEL DESTINATION REVIEWS | PYTHON
Implemented various Machine Learning Classification algorithms including SVM, Logistic Regression and Naïve Bayes on the extracted features for prediction of sentiment (positive/negative) of the given review text.

STRUCTURED PREDICTION IN RECIPE INGRIDIENTS | PYTHON
Implemented Hidden Markov Model and Structured Perceptron algorithms to model a recipe in the form of a structure and identify the ingredient components from that structure. Achieved the accuracies up to 90% and 59% on ingredient component and sentence level respectively

STUDY OF DATA MINING TECHNIQUES WITH IMDB DATASET | PYTHON
Implemented Regression techniques for IMDb rating prediction using IMDb dataset scraped from IMDb website. Studied the feature correlations to improve the performance of the regression model.

INTELLIGENT BLOOD SAMPLE ANALYZER | (MATLAB)
Designed an algorithm for detecting and finding out the counts of various blood components that includes RBC, WBC, platelets along with detecting Sickle Cell Anemia Condition and Malaria parasites in blood cells using Image Processing.

AUTONOMOUS LINE FOLLOWER ROBOT | (Embedded C)
Designed the control circuit for the Autonomous robot using ATMEGA 32 microcontroller. Implemented algorithm for autonomous line following with speed control using Embedded C.

AWARDS AND RECOGNITIONS

- Co-Chair at the Data Science Club at the University of Utah
- Decision Scientist Beginner Certification from MSU (Mu Sigma University)
- Spot Award for exceptional work in Automated Testing (Mu Sigma)
- First Prize in national level event Line Tracer Robot Race Event, VIT, Pune