Vikram Waradpande

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EDUCATION

BITS, PILANI
B.E. Computer Science
Expected June 2020
Cum. GPA: 9.20

BITS, PILANI
M.Sc. Mathematics
Expected June 2020
Cum. GPA: 9.20

SKILLS

PROGRAMMING
HANDS ON
C • C++ • Java • Python
JavaScript • HTML/CSS

FAMILIAR
• Node.js • React.js • SQL
• MATLAB • Scala

ACHIEVEMENTS

• Stood **469**th among 1.3 Million students in JEE-Main 2015

• Recipient of university's **MCN scholarship** for being in **top 2%** students since six semesters.

• Among **top 1%** in Junior Science Olympiad (NSE).

COURSEWORK

COMPUTER SCIENCE
Data Structures and Algorithms
Object Oriented Programming
Data Mining
Neural Networks and Fuzzy Logic
Database Systems
Operating Systems

MATHEMATICS
Graphs and Networks
Optimization
Probability and Statistics
Operations Research
Discrete Mathematics
Real Analysis

EXPERIENCE

ADAPT LAB | Undergraduate Researcher
August 2018 – Present | BITS Pilani
- Working on **parallelization of graph clustering algorithms** in distributed memory architecture under Prof. Shan Balasubramaniam.
- Working on a **compiler** for an in-house DSL for parallel graph processing.

MICROSOFT IDC | Software Engineering Intern
May 2018 – July 2018 | Hyderabad, India
- Working in the Bing team on Microsoft's **Knowledge Graph** under senior scientist, Joy Mustafi.
- Used **Machine Learning and NLP** techniques to classify entities into an existing ontology using textual descriptions.

INDIAN INSTITUTE OF REMOTE SENSING | Research Intern
May 2017 – July 2017 | Dehradun, India
- Worked in the Photogrammetry and Remote Sensing Lab and built a software in Python for calibration.
- Used **image processing** techniques in Python to calculate calibration parameters from satellite images.

PROJECTS

BREAST CANCER PREDICTION | Data Mining
- Used machine learning algorithms like **KNN, SVM and Decision Tree classifier** on UCI Wisconsin dataset to predict breast cancer.
- Also implemented ensemble classifiers using **bagging and boosting** to compare results.

SVD, LRA AND GRAPH CLUSTERING | Graphs and Networks
- Implemented **Singular Value Decomposition** and **Low Rank Approximation** based clustering algorithms over graphs, like discrete and continuous clustering.

WEB/APP DEVELOPMENT | Misc.
- **Chrome Extension:** A **YouTube extension** to filter out videos of selected categories from feed.
- **JS Games:** Multiplayer games in **JS and PHP** for college tech-fair.
- **Utility App:** An app built over **MEAN Stack** on Ionic framework for college utilities like buying/selling and notices.

POSITIONS OF RESPONSIBILITY

TEACHING ASSISTANT | Object Oriented Programming
August 2018 – Present | BITS Pilani
- I teach Object Oriented Programming to sophomores in **Java**.

TECHNICAL HEAD | Mathematics Association
August 2017 – May 2018 | BITS Pilani
- Handled technical affairs of Mathematics Association of BITS Pilani.