BHUVANESWARI GANANASEKAR

Yonkers, NY, USA|+1 540-449-7699 |bhuvaneswarig@vt.edu |LinkedIn | GitHub

EDUCATION

MEng in Computer Engineering | 3.62 GPA	**Virginia Tech, VA, USA**	*Aug 2021- Dec 2022*
B.E in Computer Science and Engineering | 73%	**Anna University, TN, India**	*Aug 2016- May 2020*

Relevant Coursework: Programming and data structures, Computer networks, Advanced machine learning, Data analytics, Application of machine learning, Cyber security and IoT, Object oriented programming, Software Testing

TECHNICAL PROFICIENCY

Scripting/Programming Languages	Python, Java, C++, JavaScript, HTML, CSS
Database	MySQL, SQL Server
Version control & Cloud	Docker, Amazon web service, GitHub
Tools & Frameworks	Tenser Flow, PyTorch, Scikit learn, Pandas, Tableau, Selenium
Web Development Frameworks	Spring, Hibernate, Angular, JUnit
Technical Skills	Software testing, OOPS, Machine Learning, Data analytics
Operating Systems	Windows, macOS, Linux

TRAINING & CERTIFICATIONS

- **Software Testing Training,** Credo systemz
- **MySQL Essential Training,** LinkedIn
- **Divide and Conquer, Sorting and Searching, and Randomized Algorithms**, Coursera
- **Machine Learning for All,** Coursera
- **Programming for Everybody,** Coursera
- **Neural Networks and Deep Learning,** Coursera
- **Python Data Structures,** Coursera
- **Python Data Structures-Trees,** LinkedIn
- **Tableau Essential Training,** LinkedIn

WORK EXPERIENCE

Graduate Teaching Assistant, Virginia Tech — *Feb 2022- May 2022*
- Assisted professor with lesson planning, prompt assistance, record keeping, performance tracking, and grading papers for graduate level 'Networks and Protocols' course
- Conducted and delivered lectures, demos, and office hours

Grader, Virginia Tech — *Feb 2022- May 2022*
- Created test scripts and graded exercises and projects for computational engineering courses for a class of 100+ students
- Monitored grades, maintained the grade sheet, course GitHub, and prepared a comprehensive student report to present to faculty and students

Grader, Virginia Tech — *Sep 2021- Dec 2021*
- Created test scripts and graded exercises and projects for Data Structures and Algorithms courses for a class of 100+ students
- Managed grade sheet, class site, and grading tool and presented student reports

PROJECTS

Weather Prediction Model — *Dec 2022*
- Developed a model to predict precipitation for next day and day after tomorrow on the dataset collected by US National oceanic and Atmospheric Administration
- Performed data preprocessing and visualization using Tableau
- Obtained best performing decision tree with an accuracy score of 75% for next day prediction and 74% accuracy for day of tomorrow prediction

Web based Feedback form — *Aug 2022*
- Developed a web-based feedback form using Java and MySQL
- Generated results based on the feedback

Stock Price Prediction — *Mar 2022*
- Developed a comprehensive data quality report on the Microsoft stock price dataset from Nasdaq
- Processed dataset and added additional feature variables and the target variable
- Implemented classification, regression, and neural networks to predict the loss or profit and the price of the stock 28 days in advance
- Obtained the best performance from bagging classifier 85.75% and random forest regressor

Data Exploration on COVID-19 Data — *Feb 2022*
- Conducted detailed data exploration, data cleaning and data quality report with help of excel and python
- Calculated descriptive statistics and visualization to spot patterns using Tableau

Voice Activated Cloud-based Drone Assistant — *Oct 2020*
- Developed a cloud-based completely voice-activated home automation drone that requires a virtual assistant to pass commands
- Designed it to search and detect an object that the user requests in a closed environment
- Built it to be cloud-native and highly scalable, ensured components are all containerized and can be scaled based on demands

Organization/Leadership qualities

- Planned, organized and co-hosted events in symposium and cultural events
- Volunteered in Community service through National service scheme