GAURAV ANIL HARAL

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EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems — **New York, NY**
Master of Science in Computer Science | **GPA: 3.8 |** Graduate Merit Scholarship for Academic Performance — Graduating December 2022

University of Pune — **Pune, Maharashtra**
Bachelor of Engineering | **First Class** — June 2020

RELEVANT COURSEWORK

Artificial Intelligence | **Algorithms & Computing Theory** | **Big Data Warehousing**| **Java I & II** | **Data Mining** | **Database Management System** | Concepts and Structures in Internet Computing | **Pattern Recognition** |**Cloud Computing** | Clustered Computing

PROGRAMMING SKILLS AND CERTIFICATIONS

Programming Languages: Python, **Java**, C, C++, **SQL**, HTML, CSS, XML, **JavaScript, Scala, R, Ruby**
Web Technologies & tools: Reactjs, **Nodejs**, **AWS**, **GraphQL**, AWS LightSail, **GitHub**, **Visual Studio**, **IBM Cloud Services**, Microsoft office Suite, AndroidStudio, Bootstrap, **TensorFlow, Pytorch, Brightscript, Agile, DevOps**
Data Management Tools: Microsoft SQL server, IBM db2, MariaDB, **MongoDB,** MySQL **Google Cloud Platform**
Database Visualization Tools: Weka, **Tableau, Microsoft PowerBI, IBM Cognos Analytics**
Certifications: Data Science (IBM), Data Science Method (IBM), Data Science Tools (IBM), C++ Programming (ISO), Bug Bounty Hunting (Udemy)

ACADEMIC PROJECTS

Detection of Parkinson's disease with XGboost — **September 2021-October 2021**
- Utilized Python Libraries **Scikit-learn, NumPy, Pandas, and XGboost** to develop a model using an **XGBClassifier**
- Loaded data, got structures, and labelled them, scaled structures, parted the dataset, build an **XGBClassifier**, which consequently attained the efficiency of model by 93.21%

Speech Emotion Recognition Project — **July 2021- August 2021**
- Build a model using an **MLPClassifier** using **libraries librosa, soundfile, and Scikit-learn** (among others)
- Recognized emotion from sound files loaded data, extracted features from it, separated the dataset into training and testing sets
- Initialized an **MLPClassifier** and educated the model boosting its efficacy by 74.4%

Real-Time Human Detection and Counting — **April 2021-May 2021**
- Developed a model for Human Detection and Counting System through Webcam or any other random video or image
- **HOG and OpenCV libraries** were deployed to create an operational populace counter

Deep Neural Network based Chatbot — **February 2021-March 2021**
- Implemented **Natural Language Toolkit, Keras Libraries etc** to create a chatbot trained the chatbot on the dataset which contained categories (intents), pattern and responses
- Applied a special **recurrent neural network (LSTM)** to classify which category the user's message belongs to and then gave a random response from the list of responses

Development of Solar E-bike — **April 2019-March 2020**
- Advanced a working physical model of an **energy efficient "Solar E-bike"** Also **published** a research paper on it
- Prototype carried **total weight of 275.57 pounds** including the weight of battery, motor, and solar panel when battery is fully charged, the e-bike could travel maximum distance of **35km** and could achieve a **maximum speed of 30 km/hour**

WORK EXPERIENCE

Pace University — **New York, NY**
Applied Data Science Lab Student Assistant — June 2021-September 2021
- Created and managed a dataset having **750M+** orders using **MS SQL server**
- Performed analysis on records to minimize the expenses and optimize the business process
- Created dashboards using **Tableau**, predicted future sales, and presented to executives to bolster decision making process
- Assisted students by explaining project idea, writing **SQL queries**, solving their doubts, and working of entire system
- Tools &Technologies used: **Python, React.js, Microsoft SQL server, Tableau**

Student Technical Assistant — July 2021-Present
- Managing setups, pickups, and troubleshooting of A/V equipment for weekly classroom sessions and special events – including national conferences, livestreams, and webcasts Installing computers, modems, and circuits across several offices on school premises to ensure functionality and connectivity to the University's domain
- Assisting 20+ clients daily by troubleshooting and resolving technical issues on hardware and software devices
- Upgrading software and hardware for university users and servers to ensure that all devices are up to date

Kaizen Soft Services — **Pune, IN**
Summer Intern — May 2018-August 2018
- Developed and administered **web applications** for displaying products and customer details
- Normalized a **SQL server database** with 1M+ orders for 4M customers
- Tools &Technologies used: **Tableau, Node.js, Microsoft SQL server, HTML, CSS**

VOLUNTEER EXPERIENCE

Student Usher, Schimmel Theatre, Pace University, NY — July 2021-Present
Educational Tour Organizer — May 2017-June 2019