VINAYAK BHOSALE (Master's in Computer Science)
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Education

University of Central Florida, United States | 2022 - Present
- Master of Science in Computer Science | GPA: **3.833/4**

MVJ College of Engineering, Visvesvaraya Technological University (VTU), India | 2015 - 2019
- Bachelor of Engineering in Electronics and Communication | CGPA: **7.06/10**

Full Time Experience

i2soft Technologies | Software Developer | Sep'2020 - Apr'2021
- Streamlined the change requests from the Stakeholders, negotiate and drive meetings to discuss Software, and functional issues and create project update reports for Senior Managements.
- Collaborated with the stakeholders of the processes to perform feasibility analysis, understand the requirements, and logically define the Business rules to further design the To-Be process.
- Coordinating with Business Analyst and Program Managers to improve the process.
- worked on web-based application which was built using Javascript, Python Flask framework and SQL database.

Peopleclick Techno Solutions pvt ltd | Software Developer | Dec'2019 - Jun'2020
- Collaborated with cross-functional teams including designers, product managers, and quality assurance engineers to develop and deliver high-quality software products.
- Worked on building Django Python API to create, read, update and delete from the PostgreSQL Database
- Worked on various complex deep learning algorithms such as convolutional neural networks, LSTM etc

Livewire | Associate software Engineer | Jan'2019 - Feb'2019
- Worked on variety of machine learning algorithms such as linear regression, logistic regression, Decision Tree classifier, Random Forest classifier, and others.
- Implemented front-end designs using HTML, CSS, and JavaScript.

Skills

- **Programming Languages:** Python, JavaScript, Java fundamentals, C, C++
- **Frontend & Backend Web Frameworks:** HTML, CSS, Bootstrap, Django, Flask, Streamlit
- **Database:** SQL, PostgreSQL, Mongodb
- **Data Science & Machine Learning:** Scikit Learn, Pandas, Matplotlib, Seaborn, Numpy, Statsmodels, Langchain
- **Deep Learning:** Pytorch, Tensorflow & Keras

Projects

- **Online compiler for Python:** Developed a full-stack online compiler using HTML, CSS, JavaScript, Python, and Django. The project involved designing a scalable architecture for handling multiple users and optimizing the code execution time.
- **Automatic billing system using Li-Fi technology:** Developed an embedded C-based billing system using Li-Fi technology, interfacing with Arduino IDE. This academic project involved designing and implementing efficient billing methods to enable fast and secure transactions.
- **Chat-Bot:** Designed and implemented a chatbot using Python and Google Colaboratory. The project involved using natural language processing techniques to enable intelligent responses to user queries.
- **Berkeley AI project Pacman:** Implemented search algorithms such as DFS, BFS, UCS, etc. using Python as part of an academic project. The project involved designing and implementing efficient search algorithms to enable Pacman to navigate through the maze.
- **Q&A website for students:** Developed a web-based Q&A platform using Python Django, HTML, CSS, and Bootstrap. This project involved designing a user-friendly interface and implementing features such as user authentication and question categorization.
- **Potato disease classification using Tensorflow:** Utilized deep learning neural networks and Tensorflow in Python to develop a classification model for detecting potato diseases. The project involved extensive data preprocessing and model optimization to achieve high accuracy.
- **Custom management command API:** Developed an API in Flask to execute custom management commands and populate a database. The project involved designing and testing robust API endpoints to handle different types of requests.
- **Django API for CRUD operations on SQL Database:** Developed a fully functional API in Django to create, read, update, and delete data from an SQL database. The project involved implementing secure authentication and authorization methods to ensure data integrity.

Achievements

- Developed and Published two packages (deep learning, machine learning) in pypi.org (python's official open source contribution)
  i) Image data importer package for Deep Learning Link: https://pypi.org/project/vinzy-imgdata-importer/
  ii) Train, Validation and Test split package for Machine Learning Link: https://pypi.org/project/vinzy-splitter/
- Automatic Billing System Using Li-Fi Module, presented and Published on IJMTE Journal (International Journal of management Technology and Engineering) Serial Number: 232, Publication URL: http://ijamtes.org/VOL-9-ISSUE-06-2019-1/
- Took part in Morgan & Morgan for a hacker hackathon and secured 8th spot in Generative AI challenge
- Served as chief co-ordinator and lead a team of 15 members in code wars contest at IT fest being an active member of it club during engineering

Courses & Certifications

Graduate Courses: Advanced Artificial intelligence, Advanced Computer Architecture, Design & Analysis of Algorithms, Machine Learning, Computer Understanding Natural Language (NLP), Computer Forensics II

Certifications: Data structures & Algorithms, Complete Python course, JavaScript Algorithms and Data Structures Masterclass, Python for Machine Learning & Data Science, HTML CSS JavaScript & Bootstrap, Django Backend Web framework, Neural Networks and Deep Learning

Portfolio

Github Url: https://github.com/vinayak-97
Linkedin Url: https://www.linkedin.com/in/vinayak-bhosale-a7437616a/

Hobbies

Love Creating educational Videos, **My Youtube :** Tycomac Codes (coding channel), Reading books & novels (my personal favorite book is Ikigai)