PARTH PANSE

Baltimore, MD 21227, USA | (669) 282-5451| lc69419@umbc.edu | linkedin.com/parth |Parth09P(github.com)

EDUCATION

Master of Science, Computer Science | **University of Maryland – Baltimore County** |Baltimore, Maryland *May 2023*
| GPA: 3.8/4.0

Coursework: Machine Learning, Data Visualization, Information Retrieval, Algorithms

Bachelor of Engineering, Computer Science | **University of Pune**| Pune, IND **| GPA: 3.5/4** *June 2018*

SKILLS

Language and Databases:	Python, Java, C++, HTML/CSS, JavaScript, MySQL, NOSql(MongoDb, OrientDB)
Domain Skills:	Software Development, Product Development Life-cycle, Agile Methodology, Machine Learning, Deep Learning, Cloud Deployment, Full Stack Development, Web Development
Software Engineering:	Code Maintainability/Re-use, Git, Unit Testing, Task Tracking, Load balancing (NginX), Docker, CI/CD pipeline, REST API, FastAPI, Flask, AWS, Azure Cloud, NodeJS, Linux/UNIX, VSCode
Machine Learning:	NumPy, Pandas, Matplotlib, Scikit, NLP, CNN, RNN, Transformers, PyTorch, Tensorflow, Keras, SpaCy, Rasa NLU, OpenCV, YoloV3, 3D Gesture Recognition, Kaldi ASR

EXPERIENCE

Graduate Teaching Assistant | **University of Maryland – Baltimore County** | Baltimore, Maryland *Jan 2022 – Present*

- Responsible for reinforcing learning goals presented by the Professor for **CMSC 483 – Parallel and Distributed Processing** by reviewing the study material, holding office hours to aid students, and increasing the student's grades by **10%**.
- Responsible for outlining rubrics for the assignments, evaluating them, and assisting students in their project submissions.

Associate – Software Developer | **Cognizant Technology Solutions** | Pune, IND *Sep 2018 – Aug 2021*

- Designed and developed various Python-based micro-services and deployed them onto production environments which are now actively being used by business users.
- Delivered crucial solutions for a global pharmaceutical firm that has assisted scientists in publishing pre-clinical vaccination reports.
- Conducted multiple knowledge sessions pertaining to the domain of machine learning for **150+** new recruits and interns.
- Contributed to **10+** Request for Proposals (RFPs) for providing potential solutions to technical problem statements.

Intern | **Cognizant Technology Solutions** | Pune, IND *Mar 2018 – Jun 2018*

- Worked with a team in an Agile-based methodology to deploy a web application onto a cloud environment
- Gained knowledge about software product's life cycle and its release onto production scale.

PROJECTS

AI-assisted workbench for scientific report publishing| Python, FastAPI, Docker, HF Transformers, PyTorch, NLP, Git, PyTest

- Developed a web app to assist scientists to analyze clinical data and help them publish reports with minimal human intervention.
- Automated repetitive jobs and streamlined the workflow for report publication, thereby reducing the turn-around time to publish the reports by around **35%**.
- Leveraged HuggingFace's Transformers to summarize data based on different sections of the report.
- Implemented scoring metrics and a user-feedback mechanism for evaluating the performance of the models, both through quantitative and qualitative measures.

Knowledge Transition Bot| Python, SpaCy, AWS – EC2, S3, ECS, Info. Retrieval, NOSql, REST API, NginX, PyLint, Sonarcube

- Designed a system to generate insights from Knowledge Transitions (KTs) and help them fill the knowledge gaps, thereby leading to more than **20%** effectiveness in the KTs delivered.
- Designed a document parser that helped the clients collect relevant information from a collection of documents, thereby reducing the need for manual lookup.
- Spearheaded a team of **3** during the 2nd phase of production to improve the functionalities of text analytics.

Python Flask-based Micro-blogging Web app | Python, Flask, MySQL, NginX, HTML, CSS, Bootstrap, Bcrypt

- Developed a full-stack web application that can host blogs posted by different users.
- Used SQL for storing/fetching records and used Bcrypt to enforce encryption on passwords stored.
- Used Gunicorn as a gateway server/NginX to act as a load-balancer for scalable performance.

Interactive Projection using 3D Gesture Recognition | Python, Microsoft Kinect, Gesture Recognition, OpenNI, HCI

- Developed an application for recognizing gestures in a 3D space, interpreting them, & and providing the corresponding feedback.
- Implemented the system using Python, used OpenCV for streaming, & defined custom gestures using OpenNI.

ACHIEVEMENTS & ACTIVITIES

- **Cognizant** was awarded the **AI Breakthrough Award** for **Best NLG Platform of 2021** due to my contribution made in the project for 'AI-assisted workbench for scientific report publishing'.
- **Most Outstanding Undergraduate Project**, awarded for 'Interactive Projection using 3D Gesture Recognition'.
- Earned an accolade for '**Highest Ranker in Placements'** during my final undergraduate year.
- **Former Volunteer for Outreach,** Cognizant's Social Outreach Initiative.