Skandana Gowda

skandana.gowda@gwu.edu | 2027669775 | Arlington, VA 22202 | LinkedIn : Skandana Gowda | GitHub : skandanagowda

EDUCATION

Master of Computer Science, The George Washington University — 08/2023 – present
- **GPA:** 3.78/4.00 | **SEAS Merit Award** — Washington, D.C, USA
- Coursework: Design & Analysis of Algorithms, Machine Learning, Big Data Analysis, AWS Cloud, Deep Learning & Neural Network, Computer Vision, DBMS

Bachelor of Engineering in Computer Science, Dayananda Sagar Institutions — 08/2018 – 07/2022
- **GPA:** 8.90/10.00 | **Class:** Distinction — Bengaluru, India
- Coursework: Data Structures and Applications, Object Oriented Concepts, Data Mining & Data Warehousing, User Interface Design

SKILLS

Languages & Frameworks: Python, SQL, R, Spark, Hadoop, Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, C, C++, Java

Tools & Technologies: Docker, Jenkins, Power BI, Git, GitHub, Bitbucket, Postman, Jupyter Notebooks, VS Code

Databases: MySQL, PostgreSQL, MongoDB

Strengths: Data Analysis, Data Visualization, Machine Learning, OOPs, Data Structures & Algorithms

PROFESSIONAL EXPERIENCE

Software Engineer I, Telestream — 07/2022 – 07/2023
Worked on PRISM, a product for video engineering and post-production — Bengaluru, India
- Developed the External Reference app, integrating it seamlessly into the existing PRISM framework, which led to a 15% increase in user satisfaction.
- Enhanced Audio, Picture, and Waveform applications, resulting in a 20% improvement in processing speed and a 30% reduction in bugs.
- Utilized C++, Docker, Jira, Bitbucket, PuTTY, Postman, and VS Code for efficient development and enhancement of software applications.
- Collaborated with engineers to refine software interfaces, contributing to product innovation and receiving multiple recommendations.

Full Stack Developer Intern, Tequed Labs — 09/2021 – 10/2021
- Developed a photo gallery website using JavaScript, Bootstrap, PHP, and MySQL, enabling users to upload, view, and delete images. — Bengaluru, India
- Designed an optimized framework, improving site load times by 25% and increasing user engagement by 30%.
- Contributed ideas in team meetings and delivered timely updates on development progress.
- Implemented key features, including navigation bar, header, footer, home page, and photo-detail view.

Web Developer Intern, Packbagbuddy — 12/2020 – 02/2021
- Assisted in redesigning the company's website, focusing on key sections like navigation and user interface. — Ahmedabad, India
- Recommended and implemented new features, enhancing overall site performance by 20%.
- Debugged and resolved critical issues within tight deadlines, reducing user-reported bugs by 15%.
- Collaborated with senior developers on research to further optimize the application.

PROJECTS AND PUBLICATION

Generative Adversarial Network (GAN) for Image Generation — 11/2024 – 12/2024
- Developed a GAN with a generator and discriminator for generating realistic images.
- Trained using binary cross-entropy loss and Adam-style optimizers.
- Visualized image quality improvements through various training phases.
- Analyzed the model’s effectiveness in generating diverse and realistic samples.

Toxic Comment Classification Models, Comparative Analysis of Deep Learning (LSTM) and Naive Bayes Models — 03/2024 – 05/2024
- Developed and compared Deep Learning (LSTM) and Naive Bayes models to classify toxic comments using Kaggle's Toxic Comment Classification dataset.
- Applied data preprocessing techniques including text cleaning, tokenization, and lemmatization to ensure clean inputs for both models.
- Achieved F1-score of 0.8457 with the LSTM model and precision of 0.8902 with Naive Bayes, highlighting trade-offs between recall and false positives.
- Provided insights into selecting models based on performance needs, balancing accuracy and efficiency.

Smart Assistance Application to Visually Impaired — 09/2021 – 05/2022
- Developed an application using TensorFlow, Python, and COCO datasets for real-time object detection and voice feedback to assist visually impaired users.
- Integrated a server-side machine learning model for image processing and object classification, providing voice alerts based on object proximity.
- Utilized tools like Protobuf, Matplotlib, and pyttsx3 to optimize the app’s performance and ensure accurate detection.
- Published the project in IJCRT, showcasing AI’s impact on improving independent living for visually impaired individuals.

CERTIFICATES

- Hackerrank Certification for Problem Solving
- Hackerrank Gold Level Badge in C++ and Bronze Level badge in Python.