

# Skandana Gowda

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## EDUCATION

<b>The George Washington University</b> <b>Master of Science in Computer Science</b> GPA: 3.78/4.00   SEAS Merit Award Coursework: Design and Analysis of Algorithms, Machine Learning, Big Data Analysis, AWS Cloud Computing, Deep Learning and Neural Network, Computer Vision, Database Management System	<b>Washington, D.C, USA</b> <b>Aug 2023 – May 2025</b>
<b>Dayananda Sagar Institutions</b> <b>Bachelor of Engineering in Computer Science</b> Coursework: Data Structures and Applications, Object Oriented Concepts, Data Mining and Data Warehousing, User Interface Design	<b>Bangalore, India</b> <b>Aug 2018 – Jul 2022</b>

## TECHNICAL SKILLS

**Programming and Scripting:** Python, C, C++, Java, C#, JavaScript, SQL, HTML, CSS, Bootstrap, PHP  
**AI, Data Science and Big Data Technologies:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, PyTorch, TensorFlow, Keras, Spark, Hadoop  
**Development Technologies and Tools:** Docker, Jenkins, Git, Bitbucket, VS Code, Jupyter Notebook, Google Colab, Linux  
**Databases, APIs and Analytics:** MySQL, PostgreSQL, MongoDB, FastAPI, Postman, Power BI

## WORK EXPERIENCE

<b>Software Engineer I</b> <b>Telestream</b> <ul style="list-style-type: none"><li>Developed and optimized backend services for PRISM, a video engineering and post-production tool, improving scalability and performance.</li><li>Designed and integrated new backend tools, including the External Reference app, leading to a 15% increase in user satisfaction while refining system efficiency and functionality.</li><li>Optimized processing algorithms and refactored code, achieving a 20% boost in processing speed and reducing bugs by 30%, ensuring a high-performance, reliable backend system.</li><li>Collaborated across teams to refine software architecture, drive innovation, and contribute to feature development in an agile environment.</li><li>Utilized key technologies such as C++, Docker, Jira, Bitbucket, PuTTY, Postman, and VS Code for efficient development, testing, and deployment of backend services.</li></ul>	<b>Bangalore, India</b> <b>Jul 2022 – Jul 2023</b>
<b>Full Stack Developer Intern</b> <b>Tequed Labs</b> <ul style="list-style-type: none"><li>Developed a photo gallery website with JavaScript, Bootstrap, PHP, and MySQL for image upload, viewing, and deletion.</li><li>Optimized framework performance, reducing site load times by 25% and increasing user engagement by 30%.</li><li>Collaborated with the team, contributing ideas in meetings, and providing regular development updates.</li><li>Implemented key UI components, including the navigation bar, header, footer, home page, and photo-detail view, ensuring a seamless user experience.</li></ul>	<b>Bangalore, India</b> <b>Sep 2021 – Oct 2021</b>
<b>Web Developer Intern</b> <b>PackBagBuddy</b> <ul style="list-style-type: none"><li>Contributed to the redesign of the company website, improving navigation and user interface for a better user experience.</li><li>Proposed and implemented new features, boosting site performance by 20%.</li><li>Identified and fixed critical bugs under tight deadlines, reducing user-reported issues by 15%.</li><li>Worked closely with senior developers on research and optimization to enhance application efficiency.</li></ul>	<b>Ahmedabad, India</b> <b>Dec 2020 – Feb 2021</b>

## PROJECTS

<b>3D Object Generation Using Generative Adversarial Network</b> <ul style="list-style-type: none"><li>Built a GAN with a 5-layer generator and discriminator to generate realistic 3D objects.</li><li>Trained using adversarial learning with binary cross-entropy loss and Adam optimizer for stability.</li><li>Monitored performance, visualized outputs, and fine-tuned hyperparameters to minimize mode collapse.</li></ul>	<b>Nov 2024 – Dec 2024</b>
<b>Toxic Comment Classification: Comparative Analysis of LSTM and Naive Bayes</b> <ul style="list-style-type: none"><li>Developed and compared LSTM and Naive Bayes models using Kaggle’s Toxic Comment Classification dataset.</li><li>Applied text preprocessing techniques like cleaning, tokenization, and lemmatization for high-quality input.</li><li>Achieved an F1-score of 0.8457 with LSTM and precision of 0.8902 with Naive Bayes, analyzing trade-offs in recall and false positives.</li><li>Evaluated model performance to guide selection based on accuracy, efficiency, and application needs.</li></ul>	<b>Mar 2024 – May 2024</b>
<b>Smart Assistance Application for the Visually Impaired</b> <ul style="list-style-type: none"><li>Designed and implemented a real-time object detection application using TensorFlow, Python, and the COCO dataset, enabling visually impaired users to navigate their surroundings with AI-driven voice feedback for enhanced accessibility and independence.</li><li>Developed and deployed a server-side machine learning model for advanced image processing and real-time object classification, integrating voice-based alerts to provide users with instant feedback based on object proximity for enhanced situational awareness.</li><li>Enhanced system performance and accuracy by integrating Python text-to-speech for seamless and reliable assistance.</li><li>Published the project in IJCRT, showcasing AI’s role in improving independent living for visually impaired individuals.</li></ul>	<b>Sep 2021 – May 2022</b>

## LEADERSHIP / EXTRACURRICULAR

<b>GeorgeHacks 2025</b> <ul style="list-style-type: none"><li>Developed AgriVantage, an AI-powered voice assistant for farmers using FastAPI, Twilio, OpenAI, and a RAG-based retrieval system for real-time sustainable farming solutions.</li></ul>	<b>Mar 2025</b>
<b>Student Front Desk Assistant  </b> Student Front Desk Assistant, GWU <ul style="list-style-type: none"><li>Strengthened problem-solving, multitasking, and communication skills applicable to technical roles.</li></ul>	<b>Aug 2024 – Present</b>
<b>Data Science Project Team Member  </b> Data Science for Sustainable Development (DSSD), GWU <ul style="list-style-type: none"><li>Worked on GIS data analysis and built dashboards with Tableau for sustainable development.</li></ul>	<b>Aug 2024 – Dec 2024</b>