Dineshman Bajracharya

Dallas, TX | dineshmanbajracharya@outlook.com | 682-747-4195 | linkedin.com/in/dineshman/

EDUCATION

The University of Texas at Dallas – Richardson, TX   May 2026
Bachelor of Science in Computer Engineering   CGPA: 3.5/4.0
Relevant coursework: Data Structures and Algorithms, Digital Systems & Logics, Electrical Network Analysis, Probability Theory & Statistics, Machine Learning/Artificial Intelligence, Mechanics

SKILLS & CERTIFICATIONS

- **Languages**: Python, C++, Java, MATLAB, MIPS, Javascript
- **Developer Tools**: TensorFlow, Jupyter Notebook, GitHub, CircuitLab, PSpice, SolidWorks, Fusion 360
- **Certifications**: Machine Learning Foundations Certification, Cornell University

PROJECTS

AI-Powered Guiding Eye | Team Project   November 2023 - May 2024
- Engineered a navigation-assistive wearable device to enhance mobility for visually impaired individuals.
- Programmed Arduino Uno for device control, ensuring seamless communication between components and reducing response time by 30%.
- Devised voice-activated functionalities using TensorFlow Lite and OpenAI Whisper, boosting user-friendly interaction and increasing user engagement by 40%.

Dallas Formula One Racing | Embedded System   September 2023 - Present
- Built a Data Acquisition System (DAQ) to collect and log sensor data, facilitating quicker data analyses for the mechanical engineering team and cutting data collection time by 40%.
- Fabricated racing telemetry systems using an Arduino-based platform, providing real-time data insights and enhancing team performance by 25%.

EXPERIENCE

Break Through Tech - AI/ML Fellow | Cornell University, Remote   May 2024 – Present
- Improved data quality by refining complex datasets using Python, pandas, and numpy, correcting inconsistencies and missing values, which resulted in a 30% increase in model accuracy.
- Developed and trained machine learning models in Jupyter Notebook, utilizing seaborn and matplotlib for visual data analysis, boosting predictive performance and supporting strategic decision-making in three key projects.
- Enhanced project outcomes by implementing data visualization techniques to clearly depict model results and trends, improving understanding and refining algorithm parameters.

E-Learning Recording Studio Technical Lead   September 2022 – Present
University of Texas at Dallas, Texas
- Directed a cross-functional team of 10+ members to enhance the technical quality of 120+ editing requests each semester, while ensuring adherence to high-quality standards in collaboration with instructional designers.
- Streamlined workflows and administered technical aspects of e-learning content production, significantly improving content delivery timeliness ensuring efficient project execution and adherence to deadlines.

ORGANIZATIONS

Institute of Electrical and Electronics Engineers, Robotics Division   January 2024 - Present
- Served as Lead Assistant in the Robotics Team, where I trained team members in designing and 3D printing components using CAD software, resulting in a 40% increase in team members' proficiency in CAD design.

HONORS & AWARDS

Leland Dillaha MSEE '97 Undergraduate Scholarship | Jonsson School @ UT Dallas   March 2024
APIA Toyota Scholarship |Toyota North America   July 2023