

Aisha Suhail Khan

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EDUCATION

University of Alberta

Bachelor of Science in Computing Science

Aug 2023 - May 2027

Alberta, Canada

RELEVANT COURSEWORK:

CMPUT 174 & CMPUT 175 - Foundations of Computation I & II, CMPUT 272 - Discrete Math

MATH 154 & MATH 156 - Calculus I & II, MATH 125 - Linear Algebra, STATS 151 - Applied Statistics

SKILLS

Tensorflow, PyTorch, Python, MySQL, Javascript, React.js, Node.js, Express.js, C++, MongoDB

WORK EXPERIENCE

Product Developer

October 2023 - April 2023

UofA - Blueprint

- Reviewed, revised, and managed pull requests effectively, maintaining high code quality standards, and demonstrated expertise in version control using Git, ensuring adherence to agile methodologies such as Scrum and proficiency in writing comprehensive unit tests to validate feature implementations within the CI/CD pipeline.

PROJECT EXPERIENCE

Neural Style Transfer with TensorFlow 2.0

TensorFlow

- Leveraged the VGG-19 convolutional neural network architecture to extract high-level content and style features, showcasing an understanding of advanced neural network architectures for image analysis and transformation.
- Demonstrated proficiency in deep learning and TensorFlow by developing a system that combines one image's content with another's style, showcasing advanced image manipulation techniques.

Sloth vs Pastry: PyTorch Image Classification with Transfer Learning

PyTorch

- Employed essential Python libraries including NumPy for array manipulation, Matplotlib for visualization, and os for system interaction.
- Utilized PyTorch and its associated packages, including torch.nn for building neural networks, torch.optim for optimization, and torchvision for image processing tasks.

Bank Management System

Python & MySQL

- Developed a Bank Management System integrating **MySQL and Python**, reducing automated bot registrations by **80%** through CAPTCHA verification, and enhancing user security.
- Implemented employee, user, loan, and admin tables to facilitate efficient data management and user interactions to facilitate efficient data management and user interactions.

AI Image Generator

React.js, Node.js, Express.js, MongoDB

- Leveraged **OpenAI's DALL-E API** to create an image generator, boosting user engagement by **50%** and encouraging creative content creation.
- Integrated **MongoDB** for seamless storage and retrieval of user-generated content, and developed a responsive **React** frontend, providing an intuitive and interactive user experience for prompt input and image generation.

HACKATHONS

Gems Education - DIGIFEST

Sept 2022

1st Position in Programming Category

- Created a user-friendly and interactive First Aid Crisis Bot using **Python**, that provides step-by-step guidance for various first aid emergencies, empowering users to respond effectively and confidently in critical situations, with a **90%** user satisfaction rating.
- Coordinated geolocation services to enable the bot to identify the user's location and provide information about the nearest hospitals or medical facilities, enabling quick access to professional medical help.