Ravi Kumar Sah

Software Engineer

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Education

Master of Science in Computer Science
University of Texas at Arlington
Jan 2021 - Aug 2022

Bachelor of Engineering in Information Technology
Pune University, India.
Jun 2014 - May 2018

Work History

Software Engineer
Novac Technology - Mumbai, India
May 2019 - Nov 2020

Java, Dart, C#, Android, Flutter, Web services(.Net), SQL Server, Rest, Json, XML, JavaScript, HTML

- Played the lead role in a team of four to design and launch an android mobile app using Flutter UI to enhance the expense booking system.
- Took the initiative to add a chatbot via the Azure bot framework in the expense booking system, achieving high popularity across the whole business group with over **100,000+ downloads** on the Google play store.
- Automated information extraction from scanned attachments, **reducing errors by 45%.**
- Standardized development and maintenance of database objects like tables, functions, and procedures.
- Improved performance by utilizing metrics via query profiler.

Jr. Data Scientist
Sciative Solutions - Mumbai, India
Oct 2018 - Mar 2019

Python, TensorFlow, Sci-kit-learn, Pandas, NumPy, MySQL

- Tasked to create a predictive model to analyze ticket prices based on the audience's reaction to the trailer.
- Wrote python scrapers to gather data from various sources like Twitter, YouTube, IMBD, etc.
- Performed sentiment analysis to validate the impact of the trailer with over **60% confidence.**
- Trained a predictive model to analyze movie ticket prices based on the audience trailer reaction achieving **over 73% accuracy.**

Projects

Marketplace for product and services - Android Studio, Java, Firebase, JSON, Git

- Designed and developed an android application "MarkUTApp", which facilitates the contact between buyers and sellers.
- Implemented functionalities where end-user can view, search, post, edit, deactivate, and report advertisements via the dashboard.

Autonomous Vehicle Control System - TensorFlow, Python, OpenCV, Linux

- Created a remote-controlled car using Raspberry Pi to follow a track, detect, understand, and respond to stop signs to avoid collisions. A deep learning algorithm like CNN was used to train a model using down-sampled **20000 images**, with a **test accuracy of 78%.**
- Published a paper in IJIRT Publication.2018;146596.

Age Detection using deep learning - TensorFlow, Python, OpenCV

- Developed an android application using CNN algorithm to detect and recognize human face through a mobile camera and predict the possible age, with a test **accuracy of 65%.**

Client-server chat application - NetBeans, Java, MySQL

- Developed an application using sockets for communication between the client and server to reduce the latency over the network.

Skills

Programming Languages
Java, C#, Python, Dart, NodeJS, Javascript, SQL

Databases
MS SQL Server, MySQL, MongoDB

Frameworks & Packages
Android Studio, Flutter, Bot Framework, REST, TensorFlow, OpenCV, Anaconda, Panda, Matplotlib, Numpy, Scikit-learn

Miscellaneous
Git, Slack, Visual Studio 2017, Spyder, Jupyter Notebook, VS Code, HTML5, CSS3,

Relevant Coursework

- Data Analysis and Modeling Techniques
- Design and Analysis of Algorithm
- Data Structures
- Database Systems
- Machine Learning
- Artificial Intelligence
- Data Mining
- Software Engineering

Extracurricular

- **Head Coordinator** - Administered and organized a technical festival "Techtonic 2017"