Bhavpreet Singh

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Skills

BACK END DEVELOPMENT | Java • JavaScript • Express • Node.js • Electron • Python
FRONT END DEVELOPMENT | React.JS • Redux • Next.JS • Tailwind • Bootstrap • HTML • CSS • EJS
DATABASE & MISCELANEOUS | MongoDB (Compass, shell & Atlas) • MySQL • Docker • Mongoose • GIT • NLP • Machine Learning • MS Office • Window
SOFT SKILLS | Problem Solving • Time Management • Adaptability • Team Collaboration & Communication

Academic Projects

NYIT, Old Westbury, New York

Library Deliver system   Spring 2024 – Fall 2024
• Integrating **Node.js, Next.js, MongoDB, and others**, with features like personalized recommendations and seamless book delivery.
• Our main objective is to offer a convenient platform for accessing physical library books, bypassing the need to visit libraries in person and serving as a learning opportunity for us to explore new technologies hands-on.

Hotel Feedback Portal   Fall 2023
• Developed a **Node.JS**-based Hotel Feedback Portal with **Express.js, EJS, MongoDB, and others**, featuring user authentication, machine learning-powered complaint categorization, and PDF report generation for managers.
• Implemented modular code structure for maintainability and robust error handling, enhancing the overall user experience in the hospitality sector.

Messenger   Fall 2023
• Designed a secure and feature-rich chat application in **Java**, utilizing **MySQL** for robust user authentication, **socket programming** for real-time communication, and **Java Swing** for an intuitive user interface.
• Achieved seamless message and file transfer functionality within a client-server architecture.

Shadow Bank   Fall 2023
• Developed a **Java**-based banking system, "Shadow Bank," featuring robust database interactions with **MySQL**, secure user authentication, and comprehensive management of customer accounts, employee profiles, and approval workflows.

Reddit Sentimental Analysis   Spring 2024
• Conducted sentiment analysis on Reddit data using **NLP** techniques to gauge public opinion dynamics.
• Applied **TextBlob** and **VADER** for sentiment classification, while implementing extensive data preprocessing.
• Leveraged pullpush.io API for **data retrieval** and **zero-shot classification** for topic labeling.

Sentiment Analysis and Classification of Airline Reviews   Spring 2024
• Conducted sentiment analysis and classification of airline reviews using **Multiclass Naïve Bayes** and **SVM** algorithms.
• Evaluated model performance through holdout validation and cross-validation, focusing on accuracy, precision, recall, and F1-score.

Predicting and Analyzing Traffic Levels   Spring 2024
• I led the analysis of city traffic data using **logistic regression, decision tree, and KNN** models to predict congestion patterns.
• This involved preprocessing the data, visualizing trends, and developing models that achieved up to **86.83% accuracy**.

Education

NEW YORK INSTITUTE OF TECHNOLOGY - Old Westbury, New York
B.S., computer science | Jan 2021-dec 2024 | **GPA:** 3.89 | **CS GPA:** 3.90

HONORS & AWARDS

• T.K. Steele Scholarship | 2021
• Presidential Honor List | 2021-24
• National Silver Medalist (Shooting) | 2018-19

COURSEWORK

• Data Structures and Algorithms
• Full Stack Web Development
• Data Mining
• Big Data Analytics
• Information Retrieval
• Linear Algebra
• Computational Statistics

Work Experience

NYIT, Learning Center, Old Westbury, NY | Peer Tutor | Nov 2023 – May 2024
• Tutoring individual and/or small group sessions on course content to develop tutees understanding of the material
• Preparing appropriate materials and exercises for tutoring sessions

INTEREST

Fitness • Reading • Music