

# SHUBHAM KUMAR

## MCA-National Institute of Technology, Karnataka

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### Skills

**Languages:** C(Proficient), C++(Proficient), Java(Basic), Python(Basic), Node.js, SQL, NoSQL.

**Concepts:** Data structure & Algorithms, Competitive Programming, Object-Oriented Programming, Machine Learning, Operating System, Database Systems.

### Projects

#### Ecommerce Website (Node.js, Express.js, MongoDB)

- Used Model-View-Controller (MVC) Pattern
- NoSQL Database (MongoDB)
- Worked with Sessions and Cookies.
- User Authentication, Authorization and Sending E- Mails.
- Validation of User Input
- **Utility Used:-** Express.js (Framework), Mongoose (ODM)

#### Rest API (Node.js, Express.js, MongoDB, React.js)

- Classify given mail into Spam or Ham mail using Naive Bayes Classifier.
- Bag of words model is used to represent data.
- **Accuracy Score:** 0.98

#### House Valuation Tool (Multivariable Regression, Machine Learning, Python)

- Predict the House Price in Boston City on the basis of different features.
- Histograms are used to graphically represent the effect of features on House price.
- Achieved 7% better accuracy by using Log Transformed Price as target values.
- **Variance Score:** 0.74
- **Library Used:** NumPy, Matplotlib, Sklearn, Pandas.

#### Spam Detector (Machine Learning, NLTK, Pandas, Bag of Words, Naive Bayes)

- Classify given mail into Spam or Ham mail using Naive Bayes Classifier.
- Bag of words model is used to represent data.
- **Accuracy Score:** 0.98

#### Tic Tac Toe (Android Studio, Java)

- Classify given mail into Spam or Ham mail using Naive Bayes Classifier.
- Bag of words model is used to represent data.
- **Accuracy Score:** 0.98

### Education

- **Masters of Computer Application** - National Institute of Technology, Karnataka
- **Bachelor of Computer Application** - Himachal Pradesh University (Shimla)
- **Senior Secondary (12th)** - Jawahar Navodaya Vidhyalaya, Nahan
- **Secondary School (10th)** - Jawahar Navodaya Vidhyalaya, Nahan

### Achievements & Participation

- **Overall Winner** - Version 2019 - All India MCA meet at NIT Trichy.
- **Overall Winner** - Nakshatra'20 - All India MCA meet at NIT Calicut.
- **First Position** - Code Chamber at 'Version 2019' - All India MCA meet at NIT Trichy.
- **First Position** - Topsy Turvy, Enigma at 'Nakshatra'20'-All India MCA meet at NITC.
- **Club** - Active Member of Mind Fuel Club NITK.
- **First Position** - Inter-Branch Cricket Tournament at NITK.