

Pankaj Kumar

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EDUCATION

IIT KANPUR

MAJOR IN, MATHEMATICS & STATISTICS

MINOR IN, COMPUTER SCIENCE

2015 - 2020 | Kanpur, India

CPI - 9.3/10

LINKS

Github:// [pkjkumar66](#)

LinkedIn:// [pkjkumar66](#)

Website:// [pkjkumar66](#)

COURSEWORK

COMPUTER SCIENCE

Data Mining

Machine Learning

Fundamentals of computing

Principles Of Database Systems

Data Structures and Algorithms

MATHEMATICS

Non-Linear Regression

Bayesian Analysis

Applied Stochastic Processes

Probability and Statistics

Linear Algebra

Ordinary Differential Equations

Partial Differential Equations

SKILLS

PROGRAMMING

- Java
- C/C++
- Python

FRAMEWORKS

- Spring Boot • Drop Wizard

DATABASES

- MySQL • MongoDB
- InfluxDB • Redis

MESSAGE QUEUES

- Kafka • SQS • Rabbit MQ

DEVOPS

- Docker
- Kubernetes
- AWS

OTHER SKILLS

- System Design
- Git
- GitHub Actions

EXPERIENCE

CLEARTAX | SOFTWARE ENGINEER | BANGALORE, INDIA

Aug 2020 - Present | GST Team

- Contributed many important features, maintained monolithic legacy code, migrated monolithic system to micro-services (rewrite), involved in on-call
- **Features implemented in monolithic:** GSTR forms service (upload/reset), Forms validation service, Notification service, License service
- **Designed, Planned & Developed** GSTR1 form from scratch to production, which is the most important form in GST product as a part of forms rewrite.
- License Service, building this service itself has added **5Cr+** revenue.
- **Tech Used:** JAVA | DropWizard, SpringBoot | Kafka, SQS | Jenkins, Docker | MySQL, MongoDB, InfluxDB, Redis | Grafana, GitHub Actions

PROJECTS

TAXI FARE PREDICTION | COURSE PROJECT, PROF. FAIZ AHMED

May 2019 – July 2019 | IIT Kanpur, India

- Designed model which predicts fare on various factors, with optimal accuracy
- Performed EDA on data using data visualization tools and techniques
- Employed Linear regression, Lasso, Random Forest and Artificial Neural Network models on the pre-processed data
- Model predicted fare with error $\pm 5\%$ compared to actual fare predictor device

FAKE NEWS DETECTION | PROF. ARNAB BHATTACHARYA

Jan 2019 – May 2019 | IIT Kanpur, India

- Designed model to classify articles as real or fake and act as a filter for articles
- Performed pre-processing, tokenization, word stemming to convert text documents into features vector using NLTK
- Used feature set as a body text, title, body + title, and applied Logit, Naïve Bayes, ANN, and Support vector machine for classification
- Compared results obtained from different classification technique, out of which SVM gave an average accuracy of 93%

POSITION OF RESPONSIBILITY

INSTITUTE SPORTS EVENTS | MANAGER, UDGHOSH

Feb 2017 – Oct 2017 | IIT Kanpur, India

- Led a 2-tier team of 50+ members in coordination with officials and referees
- Organized a Marathon in Kanpur which saw over 2k+ footfalls
- Launched a sports website to maintain database of referee and player profiles including Rules, Schedule and Results

ACHIEVEMENTS

- Received **Spot Award** for delivering licensing service project.
- Received **A*** grade for exceptional performance in various courses.

VOLUNTEER EXPERIENCE

TEACHING ASSISTANT

Principles Of Numerical Computations | Jan 2020 - Apr 2020

Helped students by clearing their doubts. Designed and Reviewed the programming assignments for the course consisting of 100+ students.