

Pankaj Kumar

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EDUCATION

DUAL DEGREE, IIT KANPUR

MAJOR IN, MATHEMATICS & STATISTICS

MINOR IN, COMPUTER SCIENCE

CPI - 9.3/10 | 2015 - 2020

COURSEWORK

COMPUTER SCIENCE

Data Mining

Machine Learning

Fundamentals of computing

Principles Of Database Systems

Data Structures and Algorithms

STATISTICS

Non-Linear Regression

Bayesian Analysis

Applied Stochastic Processes

Probability and Statistics

Linear Algebra

Ordinary Differential Equations

Partial Differential Equations

SKILLS

PROGRAMMING

Languages

• Java • C/C++ • Python

Frameworks & Libraries

• Spring Boot • Drop Wizard

Databases

• MySQL • MongoDB

• Influx DB • Redis

Message Queues

• Kafka • SQS • Rabbit MQ

AWS

• ECR • EC2 • Route 53 • S3

• Lambda fn • Cloud Watch

Deployment

• CI/CD • Jenkins

• Docker • Kubernetes

• Git • GitHub Actions

Tools

• Junit • Mockito • Maven

• JPA • Hibernate

OTHER SKILLS

• System Design • OOP

• Grafana, Newrelic, Coralogix, Scalyr

EXPERIENCE (2.3 YEAR)

CLEARTAX | SOFTWARE ENGINEER | BANGALORE, INDIA

Aug 2020 - Present | GST Team

- Worked on the development of data-intensive applications which can handle pushing and pulling, millions of invoices from the **Indian Govt GST** Portal.
- Led, designed, and implemented highly **reliable, scalable, maintainable & secure** applications that serve **1K/day** requests and drive **\$ 1M/year** revenue
- Experienced with all the stages of the software development cycle, from planning and design to testing, deployment, configuring metrics, dashboards.
- Maintained monolithic legacy code-base, **optimized** various db queries, reduced **api latencies**, migrated monolithic application to micro-services
- Features implemented in monolithic: Integrated many **Govt APIs** with Clear software, GSTR forms validation service, Notification service, Licensing service
- Worked as a system and customer **on-call**, given L2 training, provided various retools and automated many process which decreases ticket velocity.
- Designed, planned & developed GSTR forms from scratch and deployed to production, which is the primary source of revenue under GST product in clear
- **Tech Used:** JAVA | DropWizard, SpringBoot | Kafka, SQS | Jenkins, Docker, kubernetes | MySQL, MongoDB, InfluxDB, Redis | Grafana, GitHub Actions

PROJECTS

TAXI FARE PREDICTION | REPORT, 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 | REPORT, 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%

ACHIEVEMENTS

- **Spot Award Winner:** For exemplary work done in licensing service project
- **Academic Excellence:** Received A* grade for exceptional performance in various courses in undergrad and postgrad
- **Award Winner:** Received school topper award for getting 10/10 in cbse board

VOLUNTEER EXPERIENCE

- Mentored fresh graduate in programming, mathematics behind ML models, career advice, coding interview prep, professional portfolio
- **Numerical Computations:** Taken doubt clearing session, designed and reviewed programming assignments for the course consisting of 100+ students.