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

A\X/S

- EC2 Route 53 S3
- Lambda fxn 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 (2.2 YEAR)

CLEARTAX | SOFTWARE ENGINEER | BANGALORE, INDIA

Aug 2020 - Present | GST Team

- Led the design and development of multiple enterprise-level **micro-service** applications, driving **1 M** dollar of revenue every year using latest technology
- Designed and implemented highly **reliable**, **scalable**, **maintainable** & **secure** applications that serve more than **1K** requests per day.
- CI/CD setup, poc, load testing, unit/integration/e2e testing, code reviews
- Maintained monolithic legacy code, **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.