Pankaj Sherchan

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pankajsherchan.github.io

Education

BS: Computer Science & Mathematics **Expected Graduation: Spring 2018**

GPA: 3.972/4.0

Southeastern Louisiana University

Skills

- **Machine Learning:** Classification, Regression, Clustering, Feature Engineering, Neural Networks
- **Statistical Methods:** Regression Models, Hypothesis Testing and Confidence Intervals, Principal Component Analysis and Dimensionality Reduction, Stochastic Modelling
- **Software and Programming Languages:** Python (scikit-learn, numpy, scipy, pandas), R, SQL, C#, Java, Matlab, Javascript, MS Excel
- **Selected Coursework:** Stochastic Processes, Stochastic Simulation, Random Matrix Theory, Linear Algebra, Probability and Statistics
- **Web:** C#, SQL, HTML, CSS
- **DBMS/ORM Tools:** SQL, Linq, Entity Framework
- **Technologies:** OOD, TDD, REST, API, TFS.

Courses

- **Mathematics**: Multivariate Calculus, Discrete Mathematics, Differential Equations, Linear Algebra, Modelling and Simulation, Introduction to Probability and Statistics, Probability Theory, Bayesian Statistics, Regression, Graph Theory.
- **Computer Science**: Fundamentals of Algorithms, Data Structures, Machine Learning, Design and Implementation of Neural Networks, Theory of Automata, Computer Architecture

Research Experience

Research Assistant *Southeastern Louisiana University- Hammond, LA* **May 2017 – Nov 2017**

- Project: **Used stochastic modelling with Markov Chains to estimate student success in changing majors.**
- Supervisor: Dr. Lucyna Kabza, Dr. David Gurney
- Duties/Skills: Data processing and analysis (python), Matrix Analysis, Stochastic Process, Markov Chains, Bayes Theorem, Regular Markov Chains, Transition Probability Matrix
- Poster Presentation at University of Louisiana at Lafayette, Honors Research Program, Lafayette, LA

Research Assistant *Southeastern Louisiana University- Hammond, LA* **Oct 2017 – Present**

- Project: **Study of Fibonacci sequence in changing the coefficients, initial conditions.**
- Supervisor: Dr. Kent Neuerburg
- Duties/Skills: Matrix Manipulation(python), Algorithms, Matrix.

Professional Experience

Software Engineer Intern *GCR- Covington, LA* **Sep 2016 – Present**

- Setup n-layer architecture, hangfire configuration for notification system, esri map to add data visualization in map.
- Setup the Client side interaction with Angular JS, project styling with Angular Material and less.
- Exposure to enterprise level SDLC. Attend regular meeting with Team leader, Technical Leader,Business Analyst, Team Members. Prepare software help manual for clients.
- Environment: .Net, Angular JS, Angular Material, T-SQL, JQuery, Hangfire, Escri Maps(ArcGIS), Unit Testing, SSRS

Software Developer Intern *Utilistar Process Automation- Baton Rouge, LA* **June 2015 – Sep 2016**

- Assisted a team consisting of Senior Level Developers in implementing and updating the software. My duties included: composing backend logic, designing/updating views, designing/updating reports (SQL Server Reporting Services), as well as testing the application's functionality.
- Exposure to enterprise level SDLC. Attend regular meeting with Team leader, Technical Leader, Business Analyst, Team Members.
- Environment: .Net, T-SQL, JQuery, Unit Testing, SSRS
- Website Link: https://paystar.co/

Mathematics Tutor *Southeastern Louisiana University- Hammond, LA* **Aug 2014 – Spring 2015**

- Taught multiple Calculus courses and Introduction to Probability and Statistics.

Projects

Song Classifier

- Applied Logistic classification algorithms to classify the songs based on more than 10 features on the datasets provided by Kaggle. Used 80% data as training and 20% as testing, the final accuracy reached was 83%.

Housing Price Analysis

- Applied Linear Regression algorithms to predict the housing price based on more than 15 features on the datasets provided by Kaggle. Used 70% data as training and 30% as testing, the final accuracy reached was 91%.

Brain Activity Classifier

- Classified the single source EEG and NIRS (Hbo & HbR) data streams.

Mobile App

- Designed and implemented Mobile Application using Xamarin.forms (iOS and Android) to manage Inventory.
- Developed using Xamarin.forms (iOS and Android).

Honors and Awards

- Winner, State Programming Contest, **Louisiana State University**
- Winner, Coding Bee Programming Contest, **Department of Computer Science**
- Winner, Calculus Jeopardy, **Department of Mathematics**
- Dr. William Curran Memorial Scholarship in Computer Science, **Department of Computer Science**
- Joyce Travis Endowed Scholarship in Mathematics, **Department of Mathematics**
- Lou Ballard Endowed Scholarship, **Phi Kappa Phi**
- David Wolfie Philippe Memorial Scholarship for Leadership**, Gamma Beta Phi**
- Green S Leadership Award, **Division for Student Affairs**
- Rotary Youth Leadership Award, **International Rotary Club**

Leadership

- President**, Southeastern Undergraduate Mathematics Society(SUMS)**
- Student Vice-President, **Phi Kappa Phi**
- Senator at Large, **Office of Science and Technology, SGA**
- Member**, Association for Computer Machinery (ACM)**
- Member, **Gamma Beta Phi**
- Member, **Phi Mu Epsilon**